Agency for International Development
RULES
Procurement of Certain Essential Medical Supplies To Address the COVID–19 Pandemic, 24708–24710

Agriculture Department
See Forest Service
RULES
Civil Monetary Penalty Inflation Adjustments for 2021, 24699–24703
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals, 24839–24840

Centers for Disease Control and Prevention
NOTICES
Conditional Sailing Order Technical Instructions and Operations Manual, 24865–24866
Meetings:
Advisory Committee on Immunization Practices, 24866–24867

Centers for Medicare & Medicaid Services
RULES
Medicare Program:
Modification of Limitations on Redesignation by the Medicare Geographic Classification Review Board, 24735–24739
PROPOSED RULES
Medicare Program:
Hospital Inpatient Prospective Payment Systems for Acute Care Hospitals and the Long Term Care Hospital Prospective Payment System and Proposed Policy Changes and Fiscal Year 2022 Rates; Quality Programs and Medicare Promoting Interoperability Program Requirements for Eligible Hospitals and Critical Access Hospitals; Proposed Changes to Medicaid Provider Enrollment; and Proposed Changes to the Medicare Shared Savings Program, 25070–25790

Children and Families Administration
NOTICES
Single-Source Awards:
Residential (Shelter) and Transitional Foster Care Services, and for Finger Print Services for Unaccompanied Children, 24867

Coast Guard
RULES
Safety Zone:
Lower Mississippi River, Mile Marker 770, Randolph Bluff, TN, 24710–24712
PROPOSED RULES
Safety Zone:
July 4th Holiday Fireworks in the Coast Guard Captain of the Port Maryland-National Capital Region Zone, 24807–24809

Commerce Department
See Foreign-Trade Zones Board
See Industry and Security Bureau

See International Trade Administration
See National Oceanic and Atmospheric Administration
See Patent and Trademark Office

Comptroller of the Currency
PROPOSED RULES
Tax Allocation Agreements, 24755–24770

Drug Enforcement Administration
RULES
Designation of 3,4-MDP-2-P methyl glycidate (PMK glycidate), 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid), and alpha-phenylacetoacetamide (APAA) as List I Chemicals, 24703–24708

Education Department
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Rural, Insular, Native Achievement Programs Progress Update—Outlying Areas and the Republic of Palau, 24853

Employment and Training Administration
NOTICES
National Farmworker Jobs Program Proposed Modifications to Allotment Formula:
Program Year 2021, 24891–24895
Workforce Information Advisory Council, 24890–24891

Energy Department
See Federal Energy Regulatory Commission
PROPOSED RULES
Energy Conservation Program:
Coverage Determination for Commercial and Industrial Fans, 24752–24755
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals, 24854
Meetings:
Environmental Management Site-Specific Advisory Board, Oak Ridge, 24854–24855
Environmental Management Site-Specific Advisory Board, Paducah, 24853–24854
Environmental Management Site-Specific Advisory Board, Portsmouth, 24855

Environmental Protection Agency
RULES
Air Quality State Implementation Plans; Approvals and Promulgations:
Arizona; Miami Copper Smelter Sulfur Dioxide Control Measures, 24726–24728
Louisiana; Infrastructure State Implementation Plan Requirements for the National Ambient Air Quality Standards, 24715–24716
South Dakota; Revisions to Air Rules of South Dakota, 24713–24715
Texas; Reasonable Further Progress Plan for the Houston-Galveston-Brazoria Ozone Nonattainment Area, 24717–24718
Utah; R307–204 Emission Standards: Smoke Management, 24728–24730
Washington; Spokane Regional Clean Air Agency, 24718–24726
State Plans for Designated Facilities and Pollutants; Approvals and Promulgations: Wisconsin; Large Municipal Waste Combustors Negative Declaration Withdrawal for Designated Facilities and Pollutants, 24730–24731
Tolerance Exemption: Poly(oxy-1,2-ethanediyl), a, a’-[[4-[(3-sulfophenyl)azo]phenyl]imino]di-2,1-ethanediyl bis[hydroxy-, monosodium salt, 24731–24735

PROPOSED RULES

Air Quality State Implementation Plans; Approvals and Promulgations:
California; Imperial County Air Pollution Control District, 24835–24837
Finding of Failure to Attain the 2008 Lead and 2010 Sulfur Dioxide Standards; Arizona; Hayden and Miami Nonattainment Areas, 24829–24835
West Mojave Desert, CA; 2008 8-Hour Ozone Nonattainment Area Requirements, 24809–24829

NOTICES

Agency Information Collection Activities; Proposals, Submissions, and Approvals:
National Emission Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair Facilities—Surface Coating, 24861
Notice of Supplemental Distribution of a Registered Pesticide Product, 24860
Cross-Media Electronic Reporting: Authorized Program Revision Approval, State of New Hampshire, 24864–24865
Draft Total Maximum Daily Load for Sediment in the Indian Creek Watershed in Montgomery County, PA, 24861–24862
Public Water System Supervision Program Revision for the State of Nevada, 24863–24864

Federal Aviation Administration

PROPOSED RULES
Airspace Designations and Reporting Points: Eastern United States, 24801–24803
Northcentral United States, 24798–24800
Pocahontas, IA, 24800–24801
Port Huron, MI, 24797–24798
Saratoga, WY, 24805–24807
Standish, MI, 24792–24794
Vicinity of Erie, PA, 24794–24795
VOR Federal Airways V–36 and V–316; and VOR Federal Airways V–180, 24803–24805
York, PA, 24795–24797
Airworthiness Directives: Airbus Helicopters, 24783–24786
Airbus SAS Airplanes, 24790–24792
The Boeing Company Airplanes, 24778–24780, 24786–24789

NOTICES

Funding Opportunity: Environmental Mitigation Pilot Program, 25060–25061

Federal Communications Commission

RULES
Television Broadcasting Services: Savannah, GA, 24741–24742

PROPOSED RULES
Television Broadcasting Services: Butte, MT, 24837–24838

Federal Deposit Insurance Corporation

PROPOSED RULES
False Advertising, Misrepresentation of Insured Status, and Misuse of the FDIC's Name or Logo, 24770–24778
Tax Allocation Agreements, 24755–24770

NOTICES

Termination of Receiverships, 24865

Federal Emergency Management Agency

RULES
Suspension of Community Eligibility, 24739–24741

NOTICES

Final Flood Hazard Determinations, 24739–24741

Federal Energy Regulatory Commission

NOTICES

Combined Filings, 24857–24860
Macquarie Energy LLC v. PacifiCorp, 24855–24856
Environmental Impact Statements: Availability, etc.; Atlantic Coast Pipeline, LLC, Eastern Gas Transmission and Storage, Inc.; Atlantic Coast Pipeline Disposition and Restoration Plan, Supply Header Project Restoration Plan, 24856–24857

Federal Reserve System

PROPOSED RULES
Tax Allocation Agreements, 24755–24770

Fish and Wildlife Service

NOTICES

Endangered and Threatened Wildlife and Plants: Draft Recovery Plan for Kuenzler Hedgehog Cactus, 24881–24882
Draft Recovery Plan for Mount Charleston Blue Butterfly, 24883–24884

Food and Drug Administration

NOTICES

Agency Information Collection Activities; Proposals, Submissions, and Approvals, 24867–24868
Agency Information Collection Activities; Proposals, Submissions, and Approvals: Recommended Content of Medical Product Communications That are Consistent with the Food and Drug Administration-Required Labeling and Recommendations for Drug and Device Manufacturer Communications with Payors, Formulary Committees, and Similar Entities, 24868–24871
Registration of Producers of Drugs and Listing of Drugs in Commercial Distribution, 24871–24874

Foreign-Trade Zones Board

NOTICES

Proposed Production Activity: STIHL, Inc., Foreign-Trade Zone 20, Norfolk, VA, 24841
Forest Service
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Generic Clearance for the Collection of Qualitative Feedback on Agency Service Delivery, 24840–24841

Health and Human Services Department
See Centers for Disease Control and Prevention
See Centers for Medicare & Medicaid Services
See Children and Families Administration
See Food and Drug Administration
See National Institutes of Health

Homeland Security Department
See Coast Guard
See Federal Emergency Management Agency
See Transportation Security Administration
See U.S. Citizenship and Immigration Services

Housing and Urban Development Department
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Survey to Assess Operational and Capacity Status of Housing Counseling Agencies Due to Disaster/National Emergency, 24880–24881

Indian Affairs Bureau
NOTICES
Rate Adjustments for Indian Irrigation Projects, 24884–24889

Industry and Security Bureau
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Application for NATO International Bidding, 24842
Meetings:
Emerging Technology Technical Advisory Committee, 24841–24842

Interior Department
See Fish and Wildlife Service
See Indian Affairs Bureau

International Trade Administration
NOTICES
Antidumping or Countervailing Duty Investigations, Orders, or Reviews:
Certain Chassis and Subassemblies Thereof from the People’s Republic of China, 24844–24845
Certain Magnesia Carbon Bricks from Mexico and the People’s Republic of China, 24847–24848
Certain Magnesia Carbon Bricks from the People’s Republic of China, 24848–24849
Certain Pasta from Italy, 24845–24846
Certain Steel Nails from the Socialist Republic of Vietnam, 24849–24850
Oil Country Tubular Goods from the Republic of Turkey, 24842–24843
Prestressed Concrete Steel Wire Strand from the People’s Republic of China, 24850

International Trade Commission
NOTICES
Investigations; Determinations, Modifications, and Rulings, etc.:
Certain Welded Line Pipe from Korea and Turkey, 24889–24890

Justice Department
See Drug Enforcement Administration

Labor Department
See Employment and Training Administration
See Mine Safety and Health Administration
See Occupational Safety and Health Administration
NOTICES
Privacy Act; System of Records, 24895–24896

Mine Safety and Health Administration
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Occupational Noise Exposure, 24897–24898
Petition for Modification:
Application of Existing Mandatory Safety Standards, 24896–24897

National Archives and Records Administration
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals, 24900

National Institutes of Health
NOTICES
Meetings:
Center for Scientific Review, 24874–24875, 24877
Clinical Center, 24875–24876
Eunice Kennedy Shriver National Institute of Child Health and Human Development, 24876
National Center for Advancing Translational Sciences, 24877
National Heart, Lung, and Blood Institute, 24874, 24876–24877
National Institute of Mental Health, 24874
National Institute on Minority Health and Health Disparities, 24877

National Oceanic and Atmospheric Administration
RULES
Fisheries of the Caribbean, Gulf of Mexico, and South Atlantic:
Dolphin and Wahoo Fishery of the Atlantic; Amendment 12, 24742–24745
Fisheries of the Exclusive Economic Zone off Alaska:
Removing the Processing Restrictions on Incidentally Caught Squid and Sculpin Species in the Gulf of Alaska and Bering Sea and Aleutian Islands
Groundfish Fisheries, 24746–24749
Fisheries of the Northeastern United States:
Atlantic Sea Scallop Fishery; 2021 Closure of the Northern Gulf of Maine Scallop Management Area to the Limited Access General Category Fishery, 24745–24746
NOTICES
Takes of Marine Mammals Incidental to Specified Activities:
North Jetty Maintenance and Repairs Project in Coos Bay, OR, 24850–24852

NOTICES for November 29, 2021
Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Contents

NOTICES for November 30, 2021
Federal Register / Vol. 86, No. 89 / Tuesday, May 11, 2021 / Contents
National Science Foundation
NOTICES
Meetings:
Proposal Review, 24900

Nuclear Regulatory Commission
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Voluntary Reporting of Performance Indicators, 24901–24902

Occupational Safety and Health Administration
NOTICES
Grant of Expansion of Recognition and Modification to the Nationally Recognized Testing Laboratory Program’s List of Appropriate Test Standards:
FM Approvals, LLC, 24898–24900

Patent and Trademark Office
NOTICES
Grant of Interim Extension of the Term of U.S. Patent:
No. 9,364,354; Reducer, 24852

Pipeline and Hazardous Materials Safety Administration
NOTICES
Hazardous Materials:
Actions on Special Permits, 25061–25063
Applications for Modifications to Special Permits, 25063–25064
Applications for New Special Permits, 25063

Postal Service
RULES
Bylaws of the Board of Governors of the United States Postal Service, 24712–24713
NOTICES
Privacy Act; System of Records, 24902–24909

Presidential Documents
PROCLAMATIONS
Special Observances:
National Day of Prayer (Proc. 10203), 24697–24698

ADMINISTRATIVE ORDERS
Central African Republic; Continuation of National Emergency (Notice of May 6, 2021), 25795
Iraq; Continuation of National Emergency Respecting Stabilization (Notice of May 6, 2021), 25797
Syria; Continuation of National Emergency Respecting GovernmentActions (Notice of May 6, 2021), 25791–25794

Securities and Exchange Commission
NOTICES
Meetings; Sunshine Act, 24956, 25026
Self-Regulatory Organizations; Proposed Rule Changes:
Cboe BYX Exchange, Inc., 25016–25026
Cboe BZX Exchange, Inc., 24931–24941
Cboe C2 Exchange, Inc., 24911–24921
Cboe EDGA Exchange, Inc., 24956–24966
Cboe EDGX Exchange, Inc., 25004–25014
Cboe Exchange, Inc., 24966–24976, 25026–25033
Investors Exchange, LLC, 24976–24979
MEMX, LLC, 24951–24956
Nasdaq BX, Inc., 25045–25055
Nasdaq GEMX, LLC, 24979–24989, 25033–25035
Nasdaq ISE, LLC, 25035–25045
Nasdaq MRX, LLC, 24994–25004, 25057–25059
Nasdaq PHlx, LLC, 24941–24951, 25014–25016
National Securities Clearing Corp., 24989–24994
New York Stock Exchange, LLC, 24909–24911
The Nasdaq Stock Market, LLC, 24921–24931, 25055–25057

Small Business Administration
NOTICES
Major Disaster Declaration:
Mississippi; Public Assistance Only, 25059–25060
Oregon; Public Assistance Only, 25060

Transportation Department
See Federal Aviation Administration
See Pipeline and Hazardous Materials Safety Administration
See Transportation Statistics Bureau

Transportation Security Administration
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Law Enforcement Officer Reimbursement Request, 24880

Transportation Statistics Bureau
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Annual Tank Car Facility Survey, 25064–25065

Treasury Department
See Comptroller of the Currency
See United States Mint
NOTICES
Requests for Nominations:
Advisory Committee on Risk-Sharing Mechanisms, 25065–25066

U.S. Citizenship and Immigration Services
PROPOSED RULES
Collection and Use of Biometrics; Withdrawal, 24750–24751
Employment Authorization for Certain Classes of Aliens with Final Orders of Removal; Withdrawal, 24751–24752

Unified Carrier Registration Plan
NOTICES
Meetings; Sunshine Act, 25066–25067

United States Mint
NOTICES
2021 Pricing of Numismatic Gold, Commemorative Gold, Platinum, and Palladium Products Grid, 25066

Veterans Affairs Department
NOTICES
Agency Information Collection Activities; Proposals, Submissions, and Approvals:
Supplemental Income Questionnaire (for Philippine Claims Only), 25067–25068

Separate Parts In This Issue
Part II
Health and Human Services Department, Centers for Medicare & Medicaid Services, 25070–25790
Part III
Presidential Documents, 25791–25795, 25797

Reader Aids
Consult the Reader Aids section at the end of this issue for phone numbers, online resources, finding aids, and notice of recently enacted public laws.

To subscribe to the Federal Register Table of Contents electronic mailing list, go to https://public.govdelivery.com/accounts/USGPOOFR/subscriber/new, enter your e-mail address, then follow the instructions to join, leave, or manage your subscription.
### CFR PARTS AFFECTED IN THIS ISSUE

A cumulative list of the parts affected this month can be found in the Reader Aids section at the end of this issue.

<table>
<thead>
<tr>
<th>CFR</th>
<th>Proposed Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>24750</td>
</tr>
<tr>
<td>4</td>
<td>24750</td>
</tr>
<tr>
<td>5</td>
<td>24750</td>
</tr>
<tr>
<td>6</td>
<td>24750</td>
</tr>
<tr>
<td>7</td>
<td>24750</td>
</tr>
<tr>
<td>8</td>
<td>24750</td>
</tr>
<tr>
<td>9</td>
<td>24750</td>
</tr>
<tr>
<td>10</td>
<td>24750</td>
</tr>
<tr>
<td>11</td>
<td>24750</td>
</tr>
<tr>
<td>12</td>
<td>24750</td>
</tr>
<tr>
<td>13</td>
<td>24750</td>
</tr>
<tr>
<td>14</td>
<td>24750</td>
</tr>
<tr>
<td>15</td>
<td>24750</td>
</tr>
<tr>
<td>16</td>
<td>24750</td>
</tr>
<tr>
<td>17</td>
<td>24750</td>
</tr>
<tr>
<td>18</td>
<td>24750</td>
</tr>
<tr>
<td>19</td>
<td>24750</td>
</tr>
<tr>
<td>20</td>
<td>24750</td>
</tr>
<tr>
<td>21</td>
<td>24750</td>
</tr>
<tr>
<td>22</td>
<td>24750</td>
</tr>
<tr>
<td>23</td>
<td>24750</td>
</tr>
<tr>
<td>24</td>
<td>24750</td>
</tr>
<tr>
<td>25</td>
<td>24750</td>
</tr>
<tr>
<td>26</td>
<td>24750</td>
</tr>
<tr>
<td>27</td>
<td>24750</td>
</tr>
<tr>
<td>28</td>
<td>24750</td>
</tr>
<tr>
<td>29</td>
<td>24750</td>
</tr>
<tr>
<td>30</td>
<td>24750</td>
</tr>
<tr>
<td>31</td>
<td>24750</td>
</tr>
<tr>
<td>32</td>
<td>24750</td>
</tr>
<tr>
<td>33</td>
<td>24750</td>
</tr>
<tr>
<td>34</td>
<td>24750</td>
</tr>
<tr>
<td>35</td>
<td>24750</td>
</tr>
<tr>
<td>36</td>
<td>24750</td>
</tr>
<tr>
<td>37</td>
<td>24750</td>
</tr>
<tr>
<td>38</td>
<td>24750</td>
</tr>
<tr>
<td>39</td>
<td>24750</td>
</tr>
<tr>
<td>40</td>
<td>24750</td>
</tr>
<tr>
<td>41</td>
<td>24750</td>
</tr>
<tr>
<td>42</td>
<td>24750</td>
</tr>
<tr>
<td>43</td>
<td>24750</td>
</tr>
<tr>
<td>44</td>
<td>24750</td>
</tr>
<tr>
<td>45</td>
<td>24750</td>
</tr>
<tr>
<td>46</td>
<td>24750</td>
</tr>
<tr>
<td>47</td>
<td>24750</td>
</tr>
<tr>
<td>48</td>
<td>24750</td>
</tr>
<tr>
<td>49</td>
<td>24750</td>
</tr>
<tr>
<td>50</td>
<td>24750</td>
</tr>
<tr>
<td>51</td>
<td>24750</td>
</tr>
<tr>
<td>52</td>
<td>24750</td>
</tr>
</tbody>
</table>

### 3 CFR
- **Proclamations:**
  - 10203: 24697
- **Administrative Orders:**
  - Notices:
    - Notice of May 6, 2021: 25793, 25795, 25797

### 7 CFR
- 3: 24699

### 8 CFR
- **Proposed Rules:**
  - 1: 24750
  - 103: 24750
  - 106: 24750
  - 204: 24750
  - 207: 24750
  - 208: 24750
  - 209: 24750
  - 210: 24750
  - 212: 24750
  - 214: 24750
  - 215: 24750
  - 216: 24750
  - 235: 24750
  - 236: 24750
  - 240: 24750
  - 241: 24750
  - 244: 24750
  - 245: 24750
  - 245a: 24750
  - 264: 24750
  - 274a: 24751
  - 287: 24750
  - 316: 24750
  - 333: 24750
  - 335: 24750
- **Proposed Rules:**
  - 431: 24752

### 10 CFR
- **Proposed Rules:**
  - 431: 24752

### 12 CFR
- **Proposed Rules:**
  - 30: 24755
  - 208: 24755
  - 328: 24770
  - 364: 24755

### 14 CFR
- **Proposed Rules:**
  - 39 (5 documents): 24778, 24780, 24783, 24786, 24790
  - 71 (9 documents): 21792, 24794, 24795, 24797, 24798, 24800, 24801, 24803, 24805

### 21 CFR
- 1310: 24703

### 22 CFR
- 228: 24708

### 33 CFR
- 165: 24710
- **Proposed Rules:**
  - 165: 24807

### 39 CFR
- 3: 24712
- 10: 24712

### 40 CFR
- 52 (6 documents): 24713, 24715, 24717, 24718, 24726,
Title 3—

The President

Proclamation 10203 of May 5, 2021

National Day of Prayer, 2021

By the President of the United States of America

A Proclamation

Throughout our history, Americans of many religions and belief systems have turned to prayer for strength, hope, and guidance. Prayer has nourished countless souls and powered moral movements—including essential fights against racial injustice, child labor, and infringement on the rights of disabled Americans. Prayer is also a daily practice for many, whether it is to ask for help or strength, or to give thanks over blessings bestowed.

The First Amendment to our Constitution protects the rights of free speech and religious liberty, including the right of all Americans to pray. These freedoms have helped us to create and sustain a Nation of remarkable religious vitality and diversity across the generations.

Today, we remember and celebrate the role that the healing balm of prayer can play in our lives and in the life of our Nation. As we continue to confront the crises and challenges of our time—from a deadly pandemic, to the loss of lives and livelihoods in its wake, to a reckoning on racial justice, to the existential threat of climate change—Americans of faith can call upon the power of prayer to provide hope and uplift us for the work ahead. As the late Congressman John Lewis once said, “Nothing can stop the power of a committed and determined people to make a difference in our society. Why? Because human beings are the most dynamic link to the divine on this planet.”

On this National Day of Prayer, we unite with purpose and resolve, and recommit ourselves to the core freedoms that helped define and guide our Nation from its earliest days. We celebrate our incredible good fortune that, as Americans, we can exercise our convictions freely—no matter our faith or beliefs. Let us find in our prayers, however they are delivered, the determination to overcome adversity, rise above our differences, and come together as one Nation to meet this moment in history.

The Congress, by Public Law 100-307, as amended, has called on the President to issue each year a proclamation designating the first Thursday in May as a “National Day of Prayer.”

NOW, THEREFORE, I, JOSEPH R. BIDEN JR., President of the United States of America, by virtue of the authority vested in me by the Constitution and the laws of the United States, do hereby proclaim May 6, 2021, as a National Day of Prayer. I invite the citizens of our Nation to give thanks, in accordance with their own faiths and consciences, for our many freedoms and blessings, and I join all people of faith in prayers for spiritual guidance, mercy, and protection.
IN WITNESS WHEREOF, I have hereunto set my hand this fifth day of May, in the year of our Lord two thousand twenty-one, and of the Independence of the United States of America the two hundred and forty-fifth.
This section of the FEDERAL REGISTER contains regulatory documents having general applicability and legal effect, most of which are keyed to and codified in the Code of Federal Regulations, which is published under 50 titles pursuant to 44 U.S.C. 1510.

The Code of Federal Regulations is sold by the Superintendent of Documents.

DEPARTMENT OF AGRICULTURE

Office of the Secretary

7 CFR Part 3

[Docket No. USDA–2020–0011]

RIN 0503–AA72

Civil Monetary Penalty Inflation Adjustments for 2021

AGENCY: Office of the Secretary, USDA.

ACTION: Final rule.

SUMMARY: This final rule amends the U.S. Department of Agriculture’s civil monetary penalty regulations by making inflation adjustments as mandated by the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015.


SUPPLEMENTARY INFORMATION:

I. Background

On November 2, 2015, the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015 (the 2015 Act), which further amended the Federal Civil Penalties Inflation Adjustment Act of 1990, was signed into law to improve the effectiveness of civil monetary penalties and to maintain their deterrent effect. The 2015 Act requires agencies to adjust for inflation annually.

This rule amends 7 CFR part 3 to update the amount of civil monetary penalties that may be levied by U.S. Department of Agriculture (USDA) agencies to reflect inflationary adjustments for 2021 in accordance with the 2015 Act. As required by the 2015 Act, the annual adjustment was made for inflation based on the Consumer Price Index for the month of October 2020 and rounded to the nearest dollar after an initial adjustment. The civil monetary penalties are listed according to the applicable administering agency.

II. Notice and Comment Not Required

This rule is required by the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015, with no issue of policy discretion. Accordingly, pursuant to the administrative procedure provisions in 5 U.S.C. 553, we find upon good cause that prior notice and other public procedure with respect to this action are not necessary. We also find good cause for making this action effective less than 30 days after publication in the Federal Register.

III. Procedural Requirements

Executive Order 12866

The Office of Management and Budget has determined that this regulatory action does not meet the criteria for significant regulatory action pursuant to Executive Order 12866, Regulatory Planning and Review.

This rule contains inflation adjustments in compliance with the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015. The great majority of individuals, organizations, and entities participating in the programs affected by this regulation do not engage in prohibited behavior in violation of the statutes.

Regulatory Flexibility Act

The provisions of the Regulatory Flexibility Act relating to an initial and final regulatory flexibility analysis (5 U.S.C. 603, 604) are not applicable to this final rule because USDA was not required to publish notice of proposed rulemaking under 5 U.S.C. 553 or any other law. Accordingly, a regulatory flexibility analysis is not required.

Paperwork Reduction Act

This final rule imposes no new reporting or recordkeeping requirements necessitating clearance by OMB.

List of Subjects in 7 CFR Part 3

Administrative practice and procedure, Claims, Government employees, Income taxes, Loan programs-agriculture, Penalties, Reporting and recordkeeping requirements, Wages.

Accordingly, we are amending 7 CFR part 3, subpart I, as follows:

PART 3—DEBT MANAGEMENT

1. The authority citation for part 3, subpart I, continues to read as follows:


2. Section 3.91 is amended by revising paragraphs (a)(2) and (b) to read as follows:

§ 3.91 Adjusted civil monetary penalties.

(a) * * * * *(2) Timing. Any increase in the dollar amount of a civil monetary penalty listed in paragraph (b) of this section applies only to violations occurring after May 10, 2021. * * * * *

(b) Penalties—(1) Agricultural Marketing Service. (i) Civil penalty for improper record keeping codified at 7 U.S.C. 136i–1(d), has: A maximum of $975 in the case of the first offense, and a minimum of $1,894 if the Secretary determines that the person made a good faith effort to comply.

(ii) Civil penalty for a violation of the unfair conduct rule under the Perishable Agricultural Commodities Act, in lieu of license revocation or suspension, codified at 7 U.S.C. 499(b)(5), has a maximum of $5,308.

(iii) Civil penalty for violation of the licensing requirements under the Perishable Agricultural Commodities Act, codified at 7 U.S.C. 499(c)(a), has a maximum of $1,695 for each such offense and not more than $423 for each day it continues, or a maximum of $423 for each offense if the Secretary determines the violation was not willful.

(iv) Civil penalty in lieu of license suspension under the Perishable Agricultural Commodities Act, codified at 7 U.S.C. 499(e), has a maximum penalty of $3,388 for each violative transaction or each day the violation continues.

(v) Civil penalty for a violation of the Export Apple Act, codified at 7 U.S.C. 586, has a minimum of $153 and a maximum of $15,481.
(vi) Civil penalty for a violation of the Export Grape and Plum Act, codified at 7 U.S.C. 596, has a minimum of $296 and a maximum of $29,622.

(vii) Civil penalty for a violation of an order issued by the Secretary under the Agricultural Adjustment Act, reenacted with amendments by the Agricultural Marketing Agreement Act of 1937, codified at 7 U.S.C. 608c(14)(B), has a maximum of $2,963. Each day the violation continues is a separate violation.

(viii) Civil penalty for failure to file certain reports under the Agricultural Adjustment Act, reenacted by the Agricultural Marketing Agreement Act of 1937, codified at 7 U.S.C. 610(c), has a maximum of $296.

(ix) Civil penalty for a violation of a seed program under the Federal Seed Act, codified at 7 U.S.C. 1596(b), has a minimum of $101 and a maximum of $2,020.

(x) Civil penalty for failure to collect any assessment or fee for a violation of the Cotton Research and Promotion Act, codified at 7 U.S.C. 2112(b), has a maximum of $2,963.

(xi) Civil penalty for failure to pay, collect, or remit any assessment or fee for a violation of a program under the Potato Research and Promotion Act, codified at 7 U.S.C. 2621(b)(1), has a minimum of $1,328 and a maximum of $12,247.

(xii) Civil penalty for failure to obey a cease and desist order under the Potato Research and Promotion Act, codified at 7 U.S.C. 2621(b)(3), has a maximum of $1,328. Each day the violation continues is a separate violation.

(xiii) Civil penalty for failure to pay, collect, or remit any assessment or fee for a violation of a program under the Egg Research and Consumer Information Act, codified at 7 U.S.C. 2714(b)(1), has a minimum of $1,535 and a maximum of $15,353.

(xiv) Civil penalty for failure to obey a cease and desist order under the Egg Research and Consumer Information Act, codified at 7 U.S.C. 2714(b)(3), has a maximum of $1,535. Each day the violation continues is a separate violation.

(xv) Civil penalty for failure to remit any assessment or fee or for a violation of a program under the Beef Research and Information Act, codified at 7 U.S.C. 2906(a)(2), has a maximum of $11,977.

(xvi) Civil penalty for failure to remit any assessment or fee for a violation of a program regarding wheat and wheat foods research, codified at 7 U.S.C. 3410(b), has a maximum of $2,963.

(xvii) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Floral Research and Consumer Information Act, codified at 7 U.S.C. 4314(b)(1), has a minimum of $1,394 and a maximum of $13,940.

(xviii) Civil penalty for failure to obey a cease and desist order under the Floral Research and Consumer Information Act, codified at 7 U.S.C. 4314(b)(3), has a maximum of $1,394. Each day the violation continues is a separate violation.

(xix) Civil penalty for violation of an order under the Dairy Promotion Program, codified at 7 U.S.C. 4510(b), has a maximum of $2,577.

(xx) Civil penalty for pay, collect, or remit any assessment or fee or for a violation of the Honey Research, Promotion, and Consumer Information Act, codified at 7 U.S.C. 4610(b)(1), has a minimum of $774 and a maximum of $7,939.

(xxi) Civil penalty for failure to obey a cease and desist order under the Honey Research, Promotion, and Consumer Information Act, codified at 7 U.S.C. 4610(b)(3), has a maximum of $794. Each day the violation continues is a separate violation.


(xxiii) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of the Watermelon Research and Promotion Act, codified at 7 U.S.C. 4910(b)(1), has a minimum of $1,198 and a maximum of $11,978.

(xxiv) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Watermelon Research and Promotion Act, codified at 7 U.S.C. 4910(b)(3), has a maximum of $1,198. Each day the violation continues is a separate violation.

(xxv) Civil penalty for failure to obey a cease and desist order under the Honeysuckle Research, Promotion, and Consumer Information Act of 1985, codified at 7 U.S.C. 4815(b)(3)(A), has a maximum of $1,198.

(xxvi) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Honeysuckle Research, Promotion, and Consumer Information Act of 1985, codified at 7 U.S.C. 4815(b)(3)(A), has a maximum of $1,198. Each day the violation continues is a separate violation.

(xxvii) Civil penalty for violation of an order under the Pecan Research and Promotion Act of 1990, codified at 7 U.S.C. 6070(c)(1), has a minimum of $794 and a maximum of $9,476.

(xxviii) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Mushroom Promotion, Research, and Consumer Information Act of 1990, codified at 7 U.S.C. 6107(c)(1), has a minimum of $948 and a maximum of $9,476.

(xxix) Civil penalty for failure to obey a cease and desist order under the Pork Promotion, Research, and Consumer Information Act of 1990, codified at 7 U.S.C. 6207(e), has a maximum of $948. Each day the violation continues is a separate violation.

(xxx) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of the Lime Research, Promotion, and Consumer Information Act of 1990, codified at 7 U.S.C. 6207(c)(1), has a minimum of $948 and a maximum of $9,476.

(xxxi) Civil penalty for failure to obey a cease and desist order under the Lime Research, Promotion, and Consumer Information Act of 1990, codified at 7 U.S.C. 6207(e), has a maximum of $948. Each day the violation continues is a separate violation.

(xxxii) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Soybean Promotion, Research, and Consumer Information Act, codified at 7 U.S.C. 6307(c)(1)(A), has a maximum of $1,951.

(xxxiii) Civil penalty for failure to obey a cease and desist order under the Soybean Promotion, Research, and Consumer Information Act, codified at 7 U.S.C. 6307(e), has a maximum of $9,706. Each day the violation continues is a separate violation.

(xxxiv) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Fluid Milk Promotion Act of 1990, codified at 7 U.S.C. 6411(c)(1)(A), has a minimum of $948 and a maximum of $9,476, or in the case of a violation that is willful, codified at 7 U.S.C. 6411(c)(1)(B), has a minimum of $18,623 and a maximum of $189,510.

(xxxv) Civil penalty for failure to obey a cease and desist order under the Fluid Milk Promotion Act of 1990, codified at 7 U.S.C. 6411(e), has a maximum of $9,753. Each day the violation continues is a separate violation.

(xxxvi) Civil penalty for knowingly labeling or selling a product as organic except in accordance with the Organic Foods Production Act of 1990, codified at 7 U.S.C. 6519(e), has a maximum of $18,951.
(xxxvii) Civil penalty for failure to pay, collect, or remit any assessment or fee or for a violation of a program under the Fresh Cut Flowers and Fresh Cut Greens Promotion and Information Act of 1993, codified at 7 U.S.C. 6808(c)(1)(A)(i), has a minimum of $893 and a maximum of $8,935.

(xxxxviii) Civil penalty for failure to obey a cease and desist order under the Fresh Cut Flowers and Fresh Cut Greens Promotion and Information Act of 1993, codified at 7 U.S.C. 6806(e)(1), has a maximum of $8,935. Each day the violation continues is a separate violation.

(xxxix) Civil penalty for a violation of a program under the Sheep Promotion, Research, and Information Act of 1994, codified at 7 U.S.C. 7107(c)(1)(A), has a maximum of $1,742.

(xl) Civil penalty for failure to obey a cease and desist order under the Sheep Promotion, Research, and Information Act of 1994, codified at 7 U.S.C. 7107(e), has a maximum of $870. Each day the violation continues is a separate violation.

(xli) Civil penalty for a violation of an order or regulation issued under the Commodity Promotion, Research, and Information Act of 1996, codified at 7 U.S.C. 7419(c)(1), has a minimum of $1,644 and a maximum of $16,449 for each violation.

(xlii) Civil penalty for failure to obey a cease and desist order under the Commodity Promotion, Research, and Information Act of 1996, codified at 7 U.S.C. 7419(e), has a minimum of $1,644 and a maximum of $16,449. Each day the violation continues is a separate violation.

(xliii) Civil penalty for a violation of an order or regulation issued under the Canola and Rapeseed Research, Promotion, and Consumer Information Act, codified at 7 U.S.C. 7448(c)(1)[A][i], has a maximum of $1,644 for each violation.

(xlv) Civil penalty for a violation of an order or regulation under the Popcorn Promotion, Research, and Consumer Information Act, codified at 7 U.S.C. 7487(a), has a maximum of $1,644 for each violation.

(xlvi) Civil penalty for a violation of an order or regulation under the Hass Avocado Promotion, Research, and Information Act of 2000, codified at 7 U.S.C. 7807(c)(1)[A][i], has a minimum of $1,495 and a maximum of $14,965 for each violation.

(xlvii) Civil penalty for a violation of an order or regulation issued under the Hass Avocado Promotion, Research, and Information Act of 1999, codified at 7 U.S.C. 16366a(a)(1), has a maximum of $15,481 for each violation.

(xlviii) Civil penalty for certain violations under the Egg Products Inspection Act, codified at 21 U.S.C. 1041(c)(1)[A], has a maximum of $9,476 for each violation.

(xlix) Civil penalty for violation of an order or regulation issued under the Hass Avocado Promotion, Research, and Information Act of 2000, codified at 7 U.S.C. 7807(e)(1), has a maximum of $14,965 for each offense. Each day the violation continues is a separate violation.

(l) Civil penalty for failure to obey a cease and desist order under the Hass Avocado Promotion, Research, and Information Act of 2000, codified at 7 U.S.C. 7807(e)(1), has a maximum of $14,965 for each offense. Each day the violation continues is a separate violation.


(lii) Civil penalty for failure to obey a cease and desist order under the Livestock Mandatory Reporting Act of 1999, codified at 7 U.S.C. 16366b(g)(3), has a maximum of $15,481 for each violation. Each day the violation continues is a separate violation.

(liii) Civil penalty for failure to obey an order of the Secretary issued pursuant to the Dairy Product Mandatory Reporting Program, codified at 7 U.S.C. 1637b(c)(4)[D](iii), has a maximum of $14,965 for each offense.

(liv) Civil penalty for a willful violation of the Country of Origin Labeling program by a retailer or person engaged in the business of supplying a covered commodity to a retailer, codified at 7 U.S.C. 1636b[b](2), has a maximum of $5,000 for each violation.

(lv) Civil penalty for violations of the Dairy Research Program, codified at 7 U.S.C. 4535 and 4510(b), has a maximum of $2,577 for each violation.

(lvi) Civil penalty for a packer or swine contractor violation, codified at 7 U.S.C. 193(b), has a maximum of $29,616.

(lvii) Civil penalty for a livestock market agency or dealer failure to register, codified at 7 U.S.C. 203, has a maximum of $2,019 and not more than $101 for each day the violation continues.

(lviii) Civil penalty for operating without filing, or in violation of, a stockyard rate schedule, or of a regulation or order of the Secretary made thereunder, codified at 7 U.S.C. 207(g), has a maximum of $2,020 and not more than $101 for each day the violation continues.

(ix) Civil penalty for a stockyard owner, livestock market agency, or dealer, who engages in or uses any unfair, unjustly discriminatory, or deceptive practice or device in connection with determining whether persons should be authorized to operate at the stockyards, or with receiving, marketing, buying, or selling on a commission basis or otherwise, feeding, watering, holding, delivery, shipment, weighing, or handling of livestock, codified at 7 U.S.C. 213(b), has a maximum of $29,616.

(x) Civil penalty for a stockyard owner, livestock market agency, or dealer, who knowingly fails to obey any order made under the provisions of 7 U.S.C. 211, 212, or 213, codified at 7 U.S.C. 215(a), has a maximum of $2,020.

(xi) Civil penalty for live poultry dealer violations, codified at 7 U.S.C. 228(b)–(b), has a maximum of $86,156.

(xii) Civil penalty for a violation, codified at 7 U.S.C. 86(c), has a maximum of $289,430.

(xiii) Civil penalty for failure to comply with certain provisions of the U.S. Warehouse Act, codified at 7 U.S.C. 254, has a maximum of $37,412 per violation if an agricultural product is not involved in the violation.

(2) Animal and Plant Health Inspection Service. (i) Civil penalty for a violation of the imported seed provisions of the Federal Seed Act, codified at 7 U.S.C. 1596(b), has a minimum of $101 and a maximum of $2,020.

(ii) Civil penalty for a violation of the Animal Welfare Act, codified at 7 U.S.C. 2149(b), has a maximum of $12,023, and knowing failure to obey a cease and desist order has a civil penalty of $1,803.

(iii) Civil penalty for any person that causes harm to, or interferes with, an animal used for the purposes of official inspection by USDA, codified at 7 U.S.C. 2279e(a), has a maximum of $14,965.

(iv) Civil penalty for a violation of the Swine Health Protection Act, codified at 7 U.S.C. 3805(a), has a maximum of $30,077.

(v) Civil penalty for any person that violates the Plant Protection Act (PPA), or that forges, counterfeits, or, without authority from the Secretary, uses, alters, defaces, or destroys any certificate, permit, or other document
prohibited for in the PPA, codified at 7 U.S.C. 7734(b)(1), has a maximum of the greater of: $74,824 in the case of any individual (except that the civil penalty may not exceed $1,496 in the case of an initial violation of the PPA by an individual moving regulated articles not for monetary gain), $374,119 in the case of any other person for each violation, $601,152 for all violations adjudicated in a single proceeding if the violations do not include a willful violation, and $1,202,304 for all violations adjudicated in a single proceeding if the violations include a willful violation; or twice the gross gain or gross loss for any violation, forgery, counterfeiting, unauthorized use, defacing, or destruction of a certificate, permit, or other document provided for in the PPA that results in the person deriving pecuniary gain or causing pecuniary loss to another.

(vi) Civil penalty for any person (except as provided in 7 U.S.C. 8309(d)) that violates the Animal Health Protection Act (AHPA), or that forges, counterfeits, or, without authority from the Secretary, uses, alters, defaces, or destroys any certificate, permit, or other document provided under the AHPA, codified at 7 U.S.C. 8313(b)(1), has a maximum of the greater of: $71,811 in the case of any individual, except that the civil penalty may not exceed $1,437 in the case of an initial violation of the AHPA by an individual moving regulated articles not for monetary gain, $359,054 in the case of any other person for each violation, $601,152 for all violations adjudicated in a single proceeding if the violations do not include a willful violation, and $1,202,304 for all violations adjudicated in a single proceeding if the violations include a willful violation; or twice the gross gain or gross loss for any violation, forgery, counterfeiting, unauthorized use, defacing, or destruction of a certificate, permit, or other document provided under the AHPA that results in the person deriving pecuniary gain or causing pecuniary loss to another person.

(vii) Civil penalty for any person that violates certain regulations under the Agricultural Bioterrorism Protection Act of 2002 regarding transfers of listed agents and toxins or possession and use of listed agents and toxins, codified at 7 U.S.C. 8401(i)(1), has a maximum of $359,054 in the case of an individual and $718,110 in the case of any other person.

(viii) Civil penalty for violation of the Horse Protection Act, codified at 15 U.S.C. 1825(b)(1), has a maximum of $5,925.

(ix) Civil penalty for failure to obey Horse Protection Act disqualification, codified at 15 U.S.C. 1825(c), has a maximum of $11,579.

(x) Civil penalty for knowingly violating, or, if in the business as an importer or exporter, violating, with respect to terrestrial plants, any provision of the Endangered Species Act of 1973, any permit or certificate issued thereunder, or any regulation issued pursuant to section 9(a)(1)(A) through (F), (a)(2)(A) through (D), (c), (d) (other than regulations relating to record keeping or filing reports), (f), or (g), as specified at 16 U.S.C. 1540(a)(1), has a maximum of $54,158 for each violation.

(xi) Civil penalty for knowingly violating, or, if in the business as an importer or exporter, violating, with respect to terrestrial plants, any other regulation under the Endangered Species Act of 1973, as specified at 16 U.S.C. 1540(a)(1), has a maximum of $25,035 for each violation.

(xii) Civil penalty for violating, with respect to terrestrial plants, the Endangered Species Act of 1973, or any regulation, permit, or certificate issued thereunder, as specified at 16 U.S.C. 1540(a)(1), has a maximum of $1,367 for each violation.

(xiii) Civil penalty for knowingly and willfully violating 49 U.S.C. 80502 with respect to the transportation of animals by any rail carrier, express carrier, or common carrier (except by air or water), a receiver, trustee, or lessee of one of those carriers, or an owner or master of a vessel, codified at 49 U.S.C. 80502(d), has a minimum of $170 and a maximum of $870.


(xv) Civil penalty for knowingly violating section 3(d) or 3(f) of the Lacey Act Amendments of 1981, or for violating any other provision provided that, in the exercise of due care, the violator should have known that the plant was taken, possessed, transported, or sold in violation of any underlying law, treaty, or regulation, has a maximum of $26,930 for each violation, as specified in 16 U.S.C. 3373(a)(1) (but if the plant has a market value of less than $360, and involves only the transportation, acquisition, or receipt of a plant taken or possessed in violation of any law, treaty, or regulation of the United States, any Indian tribal law, any foreign law, any law of any political subdivision of any State, the penalty will not exceed the maximum provided for violation of said law, treaty, or regulation, or $26,930, whichever is less).

(xvi) Civil penalty for violating section 3(f) of the Lacey Act Amendments of 1981, as specified in 16 U.S.C. 3373(a)(2), has a maximum of $673.

(3) Food and Nutrition Service. (i) Civil penalty for violating a provision of the Food and Nutrition Act of 2008 (Act), or a regulation under the Act, by a retail food store or wholesale food concern, codified at 7 U.S.C. 2021(a) and (c), has a maximum of $120,231 for each violation.

(ii) Civil penalty for trafficking in food coupons, codified at 7 U.S.C. 2021(b)(3)(B), has a maximum of $43,325 for each violation, except that the maximum penalty for violations occurring during a single investigation is $78,017.

(iii) Civil penalty for the sale of firearms, ammunition, explosives, or controlled substances for coupons, codified at 7 U.S.C. 2021(b)(3)(C), has a maximum of $39,009 for each violation, except that the maximum penalty for violations occurring during a single investigation is $78,017.

(iv) Civil penalty for any entity that submits a bid to supply infant formula to carry out the Special Supplemental Nutrition Program for Women, Infants and Children and discloses the amount of the bid, rebate, or discount practices in advance of the bid opening or for any entity that makes a statement prior to the opening of bids for the purpose of influencing a bid, codified at 42 U.S.C. 1786(h)(8)(B), has a maximum of $183,829,453.

(v) Civil penalty for a vendor convicted of trafficking in food instruments, codified at 42 U.S.C. 1786(o)(1)(A) and 42 U.S.C. 1786(o)(4)(B), has a maximum of $15,877 for each violation, except that the maximum penalty for violations occurring during a single investigation is $63,509.

(vi) Civil penalty for a vendor convicted of selling firearms, ammunition, explosives, or controlled substances in exchange for food instruments, codified at 42 U.S.C. 1786(o)(1)(B) and 42 U.S.C. 1786(o)(4)(B), has a maximum of $15,877 for each violation, except that the maximum penalty for violations occurring during a single investigation is $63,509.

(4) Food Safety and Inspection Service. (i) Civil penalty for certain violations under the Egg Products Inspection Act, codified at 21 U.S.C. 1041(c)(1)(A), has a maximum of $9,476 for each violation.

(ii) [Reserved]
(5) Forest Service. (i) Civil penalty for willful disregard of the prohibition against the export of unprocessed timber originating from Federal lands, codified at 16 U.S.C. 620d(c)(1)(A), has a maximum of $975,230 per violation or three times the gross value of the unprocessed timber, whichever is greater.

(ii) Civil penalty for knowing violation by a person who willfully and intentionally provides any false or inaccurate information to the Federal Crop Insurance Corporation, codified in 16 U.S.C. 620d(c)(2)(A)(ii), has a maximum of $11,804.

(iii) Civil penalty for filing a false statement as defined under the Program Fraud Civil Remedies Act of 1986, codified at 31 U.S.C. 3802(a)(1), has a maximum of $11,804.

(iv) Civil penalty for refusal to furnish information or willful furnishing of false information or willful furnishing of false data. (a) (i) Civil penalty for refusal to furnish information or willful furnishing of false information, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(b) (i) Civil penalty for willful failure to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(ii) Civil penalty for refusing to furnish information or willful furnishing of false data. (a) (i) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(ii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(iii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(iv) Civil penalty for knowing violation by a person who willfully and intentionally provides any false or inaccurate information to the Federal Crop Insurance Corporation, codified in 16 U.S.C. 620d(c)(2)(A)(ii), has a maximum of $11,804.

(v) Civil penalty for willful disregard of the prohibition against the export of unprocessed timber originating from Federal lands, codified at 16 U.S.C. 620d(c)(1)(A), has a maximum of $975,230 per violation or three times the gross value of the unprocessed timber, whichever is greater.

(vi) Civil penalty for willful failure or refusal to furnish information, or willful furnishing of false information or willful furnishing of false data. (a) (i) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(b) (i) Civil penalty for willful failure to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(c) (i) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(d) (i) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(vi) Civil penalty for refusing to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(vii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(viii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(ix) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(x) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xi) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xiii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xiv) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xv) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xvi) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xvii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xviii) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xix) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(xx) Civil penalty for refusal to furnish information or willful furnishing of false data by a processor, refiner, or importer of sugar, syrup and molasses under section 156 of the Federal Agriculture Improvement and Reform Act of 1996, codified at 7 U.S.C. 7272(g)(5), has a maximum of $16,449 for each violation.

(6) Rural Housing Service. (i) Civil penalty for violation of section 536 of Title V of the Housing Act of 1949, codified in 42 U.S.C. 1490s(e)(2), has a maximum of $207,313 in the case of an individual, and a maximum of $2,073,133 in the case of an applicant other than an individual.

(ii) Civil penalty for violation of section 536 of Title V of the Housing Act of 1949, codified in 42 U.S.C. 1490s(e)(2), has a maximum of $207,313 in the case of an individual, and a maximum of $2,073,133 in the case of an applicant other than an individual.

(iii) Civil penalty for violation of section 536 of Title V of the Housing Act of 1949, codified in 42 U.S.C. 1490s(e)(2), has a maximum of $207,313 in the case of an individual, and a maximum of $2,073,133 in the case of an applicant other than an individual.

(iv) Civil penalty for violation of section 536 of Title V of the Housing Act of 1949, codified in 42 U.S.C. 1490s(e)(2), has a maximum of $207,313 in the case of an individual, and a maximum of $2,073,133 in the case of an applicant other than an individual.
SUPPLEMENTARY INFORMATION: This final rule designates the following chemicals as list I chemicals and subjects them to the regulatory requirements applicable to list I chemicals:

- 3,4-MDP-2-P methyl glycidate (PMK glycidate), including its optical and geometric isomers;
- 3,4-MDP-2-P methyl glycic acid (PMK glycicid acid), including its salts, optical and geometric isomers, and salts of isomers; and
- alpha-phenylacetoacetamide (APAA), including its optical isomers.

Legal Authority

The Controlled Substances Act (CSA) and the Drug Enforcement Administration’s (DEA) implementing regulations give the Attorney General as delegated to the Administrator of DEA, the authority to specify, by regulation, a chemical as a “list I chemical.” This term refers to a chemical that is used in manufacturing a controlled substance in violation of subchapter I (Control and Enforcement) of the CSA and is important to the manufacture of the controlled substance. The current list of all list I chemicals is available in 21 CFR 1310.02(a).

In addition, the United States is a Party to the 1988 United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances (1988 Convention), December 20, 1988, 1582 U.N.T.S. 95. Under Article 12 of the 1988 Convention, when the United States receives notification that a chemical has been added to Table I or Table II (tables annexed to such Convention), the United States must take measures it deems appropriate to monitor the manufacture and distribution of that chemical within the United States and to prevent its diversion, including measures related to international trade.

Background

In a letter dated May 23, 2019, the Secretary-General of the United Nations, in accordance with Article 12, paragraph 6 of the 1988 Convention, informed the United States Secretary of State that the Commission on Narcotic Drugs (CND) voted to place the chemicals 3,4-MDP-2-P methyl glycic acid (PMK glycidate) (and all stereoisomers), 3,4-MDP-2-P methyl glycic acid (PMK glycicid acid) (and all stereoisomers), and alpha-phenylacetoacetamide (APAA) (and all optical isomers) in Table I of the 1988 Convention (CND Decisions 62/10, 62/11, and 62/12, respectively) at its 62nd Session on March 19, 2019.

On December 21, 2020, DEA published a notice of proposed rulemaking (NPRM) [85 FR 82984] to designate 3,4-MDP-2-P methyl glycidate (PMK glycidate), including its optical and geometric isomers; 3,4-MDP-2-P methyl glycic acid (PMK glycicid acid), including its salts, optical and geometric isomers, and salts of isomers; and alpha-phenylacetoacetamide (APAA), including its optical isomers, as list I chemicals under the CSA. PMK glycidate, PMK glycicid acid, and APAA are close chemical relatives of controlled list I precursor 3,4-methylenedioxymethylamphetamine (MDMA) (schedule I) and other “ecstasy”-type substances in schedule I. APAA is a precursor of schedule II controlled substances amphetamine and methamphetamine.

All three chemicals are used for the illicit manufacture of two precursors listed in Table I of the 1988 Convention (3,4-MDP-2-P and 1-phenyl-2-propanone (P-2-P)). For years, countries have reported to the International Narcotics Control Board (INCB) the illicit trafficking and use of these chemicals in manufacturing controlled substances, with increasing frequency and amounts reported in 2018 and 2019.4

Comments Received and Designation of PMK Glycidate, PMK Glycidic Acid, and APAA as List I Chemicals

In response to the December 21, 2020, NPRM, DEA received one anonymous comment expressing general opposition to the “war on drugs” and to the addition of more substances to the list and under CSA control. DEA considers the general comment about the war on drugs to be outside the scope of this rulemaking.

Regarding the general opposition to listing more substances, DEA notes that it proposed to designate and add these three specific chemicals to the list as they met the statutory and regulatory definition of a list I chemical, and DEA is using its legal authority to so designate these chemicals as list I chemicals. Therefore, for the reasons discussed in the NPRM, and reiterated in the above background section, the Acting Administrator of DEA finds that PMK glycidate, PMK glycicid acid, and APAA are used in the manufacture of controlled substances in violation of the CSA, and are important to the manufacture of these controlled substances. Therefore, the Acting Administrator designates PMK glycidate, PMK glycicid acid, and APAA as list I chemicals.

Chemical Mixtures of PMK Glycidate, PMK Glycidic Acid or APAA

Pursuant to this final rulemaking, chemical mixtures containing any of these three chemicals are subject to regulatory requirements at any concentration unless a manufacturer submits to DEA an application for exemption of a chemical mixture, DEA accepts the application for filing, and DEA exempts the chemical mixture in accordance with 21 CFR 1310.13 (Exemption of chemical mixtures; application). Since even a small amount of these three chemicals can potentially yield a significant amount of controlled substances, DEA believes that regulation of chemical mixtures containing any amount of these three chemicals is necessary to prevent their illicit extraction, isolation, and use. This rule modifies the “Table of Concentration Limits” in 21 CFR 1310.12(c) to reflect the fact that chemical mixtures containing any amount of these three chemicals is subject to CSA chemical control provisions, including 21 CFR parts 1309, 1310, 1313, and 1316.

Application Process for Exemption of Chemical Mixtures

DEA has implemented an application process to exempt certain chemical mixtures from the requirements of the CSA and its implementing regulations.5 Manufacturers may submit an

\[1\] 21 U.S.C. 802(34) and 871(b) and 21 CFR 1310.02(a).

\[2\] 21 U.S.C. 802(34) and 21 CFR 1300.02(b).

\[3\] 21 CFR 1310.13 specifies that this chemical mixture is a chemical mixture consisting of two or more chemical components, at least one of which is not a list I or list II chemical, and the mixture and its listed chemical(s) must meet certain other conditions.
application for exemption for those mixtures that do not meet the category criteria set forth in 21 CFR 1310.12(d) for an automatic exemption. DEA may grant an exemption of a chemical mixture if the Administrator determines that the mixture is formulated in such a way that it cannot be easily used in the illicit production of a controlled substance, and the listed chemical or chemicals contained in the chemical mixture cannot be readily recovered (i.e., the chemical mixture meets the conditions set forth in 21 U.S.C. 802(39)(A)(vi) and 21 CFR 1310.13(a)(1)–(2)).

Requirements for Handling List I Chemicals

The designation of these three chemicals as list I chemicals subjects handlers (manufacturers, distributors, importers, and exporters) and proposed handlers to all of the regulatory controls and administrative, civil, and criminal actions applicable to the manufacture, distribution, importation, and exportation of a list I chemical. Upon the effective date of this final rulemaking, persons potentially handling these three chemicals, including regulated chemical mixtures containing any of these three chemicals, are required to comply with the following list I chemical regulations:

1. Registration. Any person who handles (manufactures, distributes, imports, or exports), or proposes to engage in such handling of any of these three chemicals must obtain a registration pursuant to 21 U.S.C. 822, 823, 957, and 958. Regulations describing registration for list I chemicals are set forth in 21 CFR part 1309. DEA regulations require separate registrations for manufacturing, distributing, importing, and exporting of any of these three chemicals. Further, a separate registration is required for each principal place of business at one general physical location where list I chemicals are manufactured, distributed, imported, or exported by a person. DEA notes that under the CSA, a “warehouseman” is not required to register and may lawfully possess a list I chemical, if the possession of the chemical is in the usual course of business or employment. Under DEA implementing regulations, the warehouse in question must receive the list I chemical from a DEA registrant, and shall only distribute the list I chemical back to the DEA registrant and registered location from which it was received. A warehouse that distributes list I chemicals to persons other than the registrant and registered location from which they were obtained is conducting distribution activities and is required to register as such.

Upon the effective date of this final rulemaking, any person manufacturing, distributing, importing, or exporting any of these three chemicals will become subject to the registration requirement under the CSA. DEA recognizes, however, that it is not possible for persons subject to the registration requirement to immediately complete and submit an application for registration and for DEA to immediately issue registrations for those activities. Therefore, to allow continued legitimate commerce in these three chemicals, DEA is establishing in 21 CFR 1310.09 a temporary exemption from the registration requirement for persons desiring to engage in activities with any of these three chemicals, provided that DEA receives a properly completed application for registration or application for exemption of chemical mixtures on or before June 9, 2021. The temporary exemption for such persons will remain in effect until DEA takes final action on their application for registration or application for exemption of a chemical mixture.

The temporary exemption applies solely to the registration requirement; all other chemical control requirements, including recordkeeping and reporting, will become effective on the effective date of the final rule. Therefore, all transactions of these three chemicals and chemical mixtures containing any of these three chemicals will be regulated while an application for registration or exemption is pending. This is necessary because failing to regulate these transactions could result in increased diversion of chemicals desirable to drug traffickers. Additionally, the temporary exemption does not suspend applicable federal criminal laws relating to these three chemicals, nor does it supersede State or local laws or regulations. All handlers of any of these three chemicals must comply with applicable State and local requirements in addition to the CSA regulatory controls.

2. Records and Reports. Every DEA registrant must maintain records and submit reports to DEA with respect to these three chemicals pursuant to 21 U.S.C. 830(a) and (b)(1) and (2) and in accordance with 21 CFR 1310.04 and 1310.05. Pursuant to 21 CFR 1310.04(a), a record must be made and maintained for two years after the date of a transaction involving a listed chemical, provided the transaction is a regulated transaction.

Each regulated bulk manufacturer of a listed chemical must submit to DEA a record on an annual basis. Existing standard industry reports containing the required information are acceptable, provided the information is separate or readily retrievable from the report.

The CSA and its implementing regulations require that each regulated person report to DEA any regulated transaction involving an extraordinary quantity of a listed chemical, an uncommon method of payment or delivery, or any other circumstance that the regulated person believes may indicate that the listed chemical will be used in violation of subchapter I of the CSA or 21 CFR part 1310. In addition, regulated persons are required to file any proposed regulated transaction with a person whose description or other identifying characteristics DEA has previously furnished to the regulated person, any unusual or excessive loss or disappearance of a listed chemical under the control of the regulated person, and any in-transit loss in which the regulated person is the supplier.

3. Importation and Exportation. All importation and exportation of these three chemicals must be done in compliance with 21 U.S.C. 957, 958, and 971 and in accordance with 21 CFR part 1313.

4. Security. All applicants and registrants must provide effective controls against theft and diversion in accordance with 21 CFR 1309.71–1309.73.

5. Administrative Inspection. Places, including factories, warehouses, or other establishments and conveyances, where registrants or other regulated persons may lawfully hold, manufacture, distribute, or otherwise dispose of a list I chemical or where records relating to those activities are maintained, are controlled premises as defined in 21 U.S.C. 880(a) and 21 CFR 1316.02(c). The CSA allows for administrative inspections of these controlled premises as provided in 21 CFR part 1316, subpart A. 21 U.S.C. 880(b).
6. Liability. Any activity involving these three chemicals not authorized by, or in violation of, the CSA is unlawful, and may subject the person to administrative, civil, and/or criminal action.

Regulatory Analyses

Executive Orders 12866 and 13563, Regulatory Planning and Review and Improving Regulation and Regulatory Review

This rule was developed in accordance with the principles of Executive Orders (E.O.) 12866 and 13563. E.O. 12866 directs agencies to assess all costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits (including potential economic, environmental, public health, and safety effects; distributive impacts; and equity). E.O. 13563 is supplemental to and reaffirms the principles, structures, and definitions governing regulatory review as established in E.O. 12866.

E.O. 12866 classifies a “significant regulatory action,” requiring review by the Office of Management and Budget (OMB), as any regulatory action that is likely to result in a rule that may: (1) Have an annual effect on the economy of $100 million or more or adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or State, local, or tribal governments or communities; (2) create a serious inconsistency or otherwise interfere with an action taken or planned by another agency; (3) materially alter the budgetary impact of entitlements, grants, user fees, or loan programs or the rights and obligations of recipients thereof; or (4) raise novel legal or policy issues arising out of legal mandates, the President’s priorities, or the principles set forth in the E.O.

As finalized, PMK glycidate, PMK glycidic acid, and APAA are subject to all of the regulatory controls and administrative, civil, and criminal sanctions applicable to the manufacture, distribution, importing, and exporting of list I chemicals. The first two chemicals, PMK glycidate and PMK glycidic acid, are closely related in chemical structure to precursors of MDMA and other "ecstasy"-type substances, as discussed in the above background section. APAA is a precursor of amphetamine and methamphetamine. All three chemicals are highly suitable for the illicit manufacture of precursors listed in Table 1 of the 1988 Convention (3,4-methylenedioxyphe?nyl-2-propanone (3,4-MDP-2-P) and 1-phenyl-2-propanone (P-2-P)). As noted earlier, incidents of illicit manufacture and tracking of these three chemicals have been reported for many years to the INCB, with an increase in the frequency and amounts reported in 2018 and 2019.

In making its assessment pursuant to Article 12, paragraph 4 of the 1988 Convention, the CND found that there was no known legitimate manufacture of and trade in any of the three chemicals and that their use was limited, in small amounts, to research, development, laboratory, and analytical purposes. DEA also searched information in the public domain for legitimate uses of these three chemicals, and likewise, did not identify any known legitimate use for any of these chemicals, other than possibly for research purposes. DEA evaluated the costs and benefits of this action.

DEA cannot rule out the possibility that minimal quantities of PMK glycidate, PMK glycidic, or APAA are used for the manufacturing of legitimate pharmaceutical substances. However, DEA did not receive any public comments to that effect in response to the NPRM.

Costs

As stated above, the only use for PMK glycidate and PMK glycidic acid is as intermediaries for the manufacturing of MDMA and other "ecstasy"-type substances. Similarly, the only use for APAA is as a precursor for amphetamine and methamphetamine. Any manufacturer, distributor, importer, or exporter of any of these three chemicals for legitimate pharmaceutical commerce, if they exist at all, will incur costs if they are not already registered for handling List I chemicals. The primary costs associated with this rule are the annual registration fees ($3,047 for manufacturers and $1,523 for distributors, importers, and exporters). Moreover, any manufacturer that uses any of these three chemicals for legitimate pharmaceutical purposes is likely to already be registered with DEA and have all security and other handling processes in place, resulting in minimal cost.

DEA has identified ten domestic suppliers of one or more of these chemicals, PMK glycidate, PMK glycidic acid, and APAA; nine of these suppliers are not currently registered with DEA to handle list I chemicals. The amount of these three chemicals distributed by these suppliers is unknown. It is common for chemical distributors to have items on their catalog while not actually having any material level of sales. Based on the discussion above, DEA believes any quantity of sales from these distributors for legitimate pharmaceutical purposes is minimal. As finalized, suppliers for the legitimate use of PMK glycidate, PMK glycidic acid, and APAA are expected to choose the least-cost option, which in many cases may lead them to stop selling the minimal quantities, if any, of PMK glycidate, PMK glycidic acid, and APAA, rather than incur the registration cost. Therefore, DEA estimates that the cost of foregone sales is minimal; and thus, the cost of this rule is minimal.

This analysis excludes consideration of any economic impact to those businesses that facilitate the manufacturing and distribution of PMK glycidate, PMK glycidic acid, or APAA for the illicit production of amphetamine, methamphetamine, MDMA, or other "ecstasy"-type substances.

Benefits

Controlling PMK glycidate, PMK glycidic acid, and APAA is expected to prevent, curtail, and limit the unlawful manufacture and distribution of amphetamine, methamphetamine, and MDMA and other "ecstasy"-type substances. This action is also expected to assist in the prevention of possible theft or diversion of PMK glycidate, PMK glycidic acid, and APAA from any legitimate firms. DEA also believes control is necessary to prevent unscrupulous chemists from synthesizing PMK glycidate, PMK glycidic acid, and APAA and selling them (as an unregulated material) through the internet and other channels to individuals who may wish to acquire unregulated intermediary chemicals for the purpose of manufacturing illicit amphetamine, methamphetamine, or MDMA or other "ecstasy"-type substances.

In summary, DEA conducted a qualitative analysis of costs and benefits. DEA believes this action will minimize the diversion of PMK glycidate, PMK glycidic acid, and APAA. DEA believes the legitimate market for PMK glycidate, PMK glycidic acid, and APAA for legitimate pharmaceutical purposes is minimal. Thus, any potential cost resulting from this regulation is minimal.

Executive Order 12988, Civil Justice Reform

This regulation meets the applicable standards set forth in sections 3(a) and 3(b)(2) of E.O. 12988 to eliminate drafting errors and ambiguity, minimize litigation, provide a clear legal standard
Executive Order 13132, Federalism

This rulemaking does not have federalism implications warranting the application of E.O. 13132. The rule does not have substantial direct effects on the states, on the relationship between the Federal government and the Indian tribes, or on the distribution of power and responsibilities among the various levels of government.

Executive Order 13175, Consultation and Coordination With Indian Tribal Governments

This rule does not have tribal implications warranting the application of E.O. 13175. It does not have substantial direct effects on one or more Indian tribes, or on the relationship between the Federal government and Indian tribes, or on the distribution of power and responsibilities among the Federal government and Indian tribes.

Regulatory Flexibility Act (RFA)

The Acting Administrator, in accordance with the RFA, has reviewed this rule, and by approving, it certifies that it will not have a significant economic impact on a substantial number of small entities.

As discussed above, PMK glycidate, PMK glycidic acid, and APAA will now become subject to all of the regulatory controls and administrative, civil, and criminal sanctions applicable to the manufacture, distribution, importation, and exportation of list I chemicals. PMK glycidate and PMK glycidic acid are closely related in chemical structure to precursors of MDMA and other "ecstasy"-type substances. APAA is a precursor of amphetamine and methamphetamine. All three chemicals are highly suitable for the illicit manufacture of precursors listed in Table I of the 1988 Convention (3,4-methylenedioxyphenyl-2-propanone (3,4-MDP-2-P) and 1-phenyl-2-propanone (P-2-P)). DEA has not identified any legitimate industrial use for PMK glycidate, PMK glycidic acid, or APAA, other than as intermediary chemicals in the production of amphetamine, methamphetamine, and MDMA or other "ecstasy"-type substances. Therefore, DEA believes the vast majority, if not all, of PMK glycidate, PMK glycidic acid, and APAA is used for the illicit manufacturing of amphetamine, methamphetamine, and MDMA or other "ecstasy"-type substances. The primary costs associated with this rule are the annual registration fees ($3,947 for manufacturers and $1,523 for distributors, importers, and exporters), but only if they are not already registered to handle any list I chemicals.

DEA has identified ten domestic suppliers of one or more of the chemicals, PMK glycidate, PMK glycidic acid, and APAA; nine of these suppliers are currently not registered with DEA to handle list I chemicals. All nine non-registered domestic suppliers are affected, and all nine (94.5 percent, based on Small Business Administration size standard for chemical distributors and Statistics of U.S. Businesses data) are estimated to be small entities. The number of these three chemicals distributed by these suppliers is unknown. It is common for chemical distributors to have items on their catalog while not actually having any material level of sales. Based on the discussion above, DEA believes any quantity of sales from these distributors for legitimate pharmaceutical purposes is minimal. DEA did not receive any comments to the contrary in response to the NPRM. DEA estimates that this rule will not have a significant economic impact on a substantial number of small entities.

Unfunded Mandates Reform Act of 1995 (UMRA)

In accordance with the UMRA, 2 U.S.C. 1501 et seq., DEA has determined and certifies that this rule will not result in any Federal mandate that may result “in the expenditure by State, local, and tribal governments, in the aggregate, or by the private sector, of $100 million or more (adjusted annually for inflation) in any one year. . . .” Therefore, neither a Small Government Agency Plan nor any other action is required under the UMRA.

Paperwork Reduction Act

The action does not impose a new collection of information requirement under the Paperwork Reduction Act, 44 U.S.C. 3501–3521. This action will not impose recordkeeping or reporting requirements on State or local governments, individuals, businesses, or organizations. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Congressional Review Act

This final rule is not a major rule as defined by the Congressional Review Act (CRA), 5 U.S.C. 804. However, pursuant to the CRA, DEA is submitting a copy of this final rule to both Houses of Congress and to the Comptroller General.

List of Subjects 21 CFR Part 1310

Administrative practice and procedure, Drug traffic control, Exports, Imports, Reporting and recordkeeping requirements.

Accordingly, for the reasons set forth in the preamble, DEA amends 21 CFR part 1310 as follows:

PART 1310—RECORDS AND REPORTS OF LISTED CHEMICALS AND CERTAIN MACHINES; IMPORTATION AND EXPORTATION OF CERTAIN MACHINES

§ 1310.02 Substances covered.

(a) * * *

(34) 3,4-MDP-2-P methyl glycidate (PMK glycidate) and its optical and geometric isomers 8535

(35) 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid) and its salts, optical and geometric isomers, and salts of isomers 8525

(36) Alpha-phenylacetoacetamide (APAA) and its optical isomers 8515

* * * * *

§ 1310.04 Maintenance of records.

(g) * * *

(1) * * *

(i) Alpha-phenylacetoacetamide (APAA) and its optical isomers

* * * * *

(viii) 3,4-MDP-2-P methyl glycidate (PMK glycidate) and its optical and geometric isomers

(ix) 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid) and its salts, optical and geometric isomers, and salts of isomers

* * * * *

4. In § 1310.09, add paragraph (q) to read as follows:

§ 1310.09 Temporary exemption from registration.

(q)(1) Each person required under 21 U.S.C. 822 and 957 to obtain a registration to manufacture, distribute, import, or export regulated forms of 3,4-MDP-2-P methyl glycidate (PMK glycidate), 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid), and alpha-phenylacetoacetamide (APAA), including regulated chemical mixtures pursuant to §1310.12, is temporarily exempted from the registration requirement, provided that DEA receives a properly completed application for registration or application for exemption for a chemical mixture containing regulated forms of 3,4-MDP-2-P methyl glycidate (PMK glycidate), 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid), or alpha-phenylacetoacetamide (APAA) pursuant to §1310.13 on or before 30 days after publication of a rule implementing regulations regarding these three chemicals. The exemption will remain in effect for each person who has made such application until the Administration has approved or denied that application. This exemption applies only to registration; all other chemical control requirements set forth in the Act and parts 1309, 1310, 1313, and 1316 of this chapter remain in full force and effect.

(2) Any person who manufactures, distributes, imports or exports a chemical mixture containing regulated forms of 3,4-MDP-2-P methyl glycidate (PMK glycidate), 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid), or alpha-phenylacetoacetamide (APAA) whose application for exemption is subsequently denied by DEA must obtain a registration with DEA. A temporary exemption from the registration requirement will also be provided for those persons whose applications for registration are denied, provided that DEA receives a properly completed application for registration on or before 30 days following the date of official DEA notification that the application for exemption has been denied. The temporary exemption for such persons will remain in effect until DEA takes final action on their registration application.

5. In §1310.12, in paragraph (c), add in alphabetical order entries for 3,4-MDP-2-P methyl glycidate (PMK glycidate), 3,4-MDP-2-P methyl glycidic acid (PMK glycidic acid), and alpha-phenylacetoacetamide (APAA) in the table “Table of Concentration Limits” to read as follows:

§1310.12 Exempt chemical mixtures.

Table of Concentration Limits

<table>
<thead>
<tr>
<th>DEA chemical code no.</th>
<th>Concentration</th>
<th>Special conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>8535</td>
<td>Not exempt at any concentration.</td>
<td>Chemical mixtures containing any amount of this chemical are not exempt.</td>
</tr>
<tr>
<td>8525</td>
<td>Not exempt at any concentration.</td>
<td>Chemical mixtures containing any amount of this chemical are not exempt.</td>
</tr>
<tr>
<td>8515</td>
<td>Not exempt at any concentration.</td>
<td>Chemical mixtures containing any amount of this chemical are not exempt.</td>
</tr>
</tbody>
</table>

D. Christopher Evans, Acting Administrator.

AGENCY FOR INTERNATIONAL DEVELOPMENT

22 CFR Part 228

[AID–2020–0004]

RIN 0412–AB09

Procurement of Certain Essential Medical Supplies To Address the COVID–19 Pandemic

AGENCY: Agency for International Development.

ACTION: Final rule; technical amendments.

SUMMARY: On October 23, 2020, the United States Agency for International Development (USAID) issued a Temporary Final Rule (TFR) amending our regulations to allow USAID to waive “Source and Nationality” rules to provide for increased flexibility, targeting, and speed of procurement of Essential Medical Supplies required to address the COVID–19 pandemic worldwide. The TFR was effective through April 30, 2021. This document reverts the amended sections to the text of those sections as they existed prior to the issuance of the TFR, with minor technical updates. This reversion to the original text is applicable upon the expiration of the TFR.

DATES: This rule is effective May 10, 2021. As stated in the October 23, 2020, final rule, the TFR was effective from October 23, 2020, through April 30, 2021. The amendments in this rule are applicable beginning May 1, 2021, after the expiration of the TFR.


FOR FURTHER INFORMATION CONTACT: Greg Marchand, Assistant General Counsel, Office of the General Counsel, USAID, 1300 Pennsylvania Ave. NW, Washington, DC 20523, 202–215–3409, GFEDREGMailbox@usaid.gov.

SUPPLEMENTARY INFORMATION: This document affects 22 CFR 228.01, which was amended by the TFR published in the Federal Register on October 23, 2020 (85 FR 67443) and subsequently corrected on December 16, 2020 (85 FR 81390). The TFR and its subsequent correction revised the definitions in §228.01 by adding a new definition for “Essential medical supplies.” This document reinstates the definitions in §228.01 exactly as they existed prior to the issuance of the TFR. This document also reverts 22 CFR 228.11 and 228.30, which were also amended by the TFR published in the Federal Register on October 23, 2020 (85 FR 67443). The TFR amended these sections to create a
new approval requirement and basis for waivers for the source and nationality of essential medical supplies. This document reverts the language of both sections to the text as it existed prior to the issuance of the TFR, with minor technical updates.

List of Subjects in 22 CFR Part 228

Government procurement.

The Deputy General Counsel of USAID, Suk J. Jin, having reviewed and approved this document, is delegating the authority to electronically sign this document to Gregory A. Marchand, Assistant General Counsel for USAID, for purposes of publication in the Federal Register.

Gregory A. Marchand,
Assistant General Counsel, U.S. Agency for International Development.

For reasons stated in the preamble, USAID amends 22 CFR part 228 as follows:

PART 228—RULES FOR PROCUREMENT OF COMMODITIES AND SERVICES FINANCED BY USAID

* * *

1. The authority citation for 22 CFR part 228 continues to read as follows:


2. Revise § 228.01 to read as follows:

§ 228.01 Definitions.

As used in this part, the following terms shall have the following meanings:

Advanced developing countries mean those countries that are categorized by the World Bank as upper middle income countries according to their gross national income per capita, except for those countries in which USAID provides assistance. USAID will maintain a list of advanced developing countries primarily based on the most recent World Bank determinations, and will make the list available in USAID’s Automated Directives System. ADS 310. This list will include determinations made under § 228.17.

Available for purchase means for commodities, that the commodity is offered for sale in a country in the authorized principal geographic code at the time of purchase from the supplier, irrespective of the place of manufacture or production, unless it is a prohibited source country. If applicable, the commodity must also be able to be serviced, and, if warranted, have a valid warranty. For services, available for purchase means the service is offered from a vendor which has complies with nationality and foreign government-owned organization requirements of this regulation, and is otherwise organized in a country in the authorized principal geographic code designated in an implementing instrument. This definition does not apply to procurements under the geographic Code 935, see § 228.03, because that geographic code is for any country or area except for prohibited source countries.

Commission means any payment or allowance by a supplier to any person for the contribution which that person has made to secure the sale or contract for the supplier or which that person makes to securing on a continuing basis similar sales or contracts for the supplier.

Commodities or goods means any material, article, supply, good, or equipment.

Commodity-related services means delivery services and/or incidental services.

Cooperating country or recipient country means the country receiving the USAID assistance subject to this part, and includes all the countries receiving assistance under a regional program or project.

Delivery means the transfer to, or for the account of, an importer of the right to possession of a commodity, or, with respect to a commodity-related service, the rendering to, or for the account of, an importer of any such service.

Delivery service means any service customarily performed in a commercial export or import transaction which is necessary to affect a physical transfer of commodities to the cooperating/recipient country. Examples of such services are the following: export packing, local drayage in the source country (including awaiting time at the dock), ocean and other freight, loading, heavy lift, warehousing, tollage, switching, dumping and trimming, lightage, insurance, commodity inspection services, and services of a freight forwarder. “Delivery service” may also include work and materials necessary to meet USAID marking requirements.

Developing countries means those countries that are categorized by the World Bank as low or lower middle income economies according to their gross national income per capita, and also includes all countries to which USAID provides assistance. USAID will maintain a list of developing countries primarily based on the most recent World Bank determinations, and will make the list available in USAID’s Automated Directives System. ADS 310. Free Port Warehouse is a special customs area with favorable customs regulations (or no customs duties and controls for transshipment). Implementing instrument means a binding relationship established between USAID and an outside party or parties to carry out USAID programs, by authorizing the use of USAID funds and/or nonfinancial resources for the procurement of services or commodities and/or commodity related services. Implementing instruments include specific conditions that apply to each such procurement. Examples of such instruments include contracts, grants, cooperating agreements, and interagency agreements.

Incidental services means services such as installation, erection, maintenance, or upgrading of USAID-financed equipment, or the training of personnel in the maintenance, operation and use of such equipment, or similar services provided for the authorized disposition of such commodities. Long term lease means, for purposes of subpart B of this part, a single lease of more than 180 calendar days; or repetitive or intermittent leases under a single lease within a one-year period, which cumulatively total more than 180 calendar days. A single lease may consist of lease of one more of the same type of commodity within the same lease term.

Motor vehicles means self-propelled vehicles with passenger carriage capacity, such as highway trucks, passenger cars and buses, motorcycles, scooters, motorized bicycles, ATVs, and utility vehicles. Excluded from this definition are ambulances, snowmobiles, industrial vehicles for materials handling and earthmoving, such as lift trucks, tractors, graders, scrapers, off-the-highway trucks (such as off-road dump trucks), boats, and other vehicles that are not designed for travel at normal road speeds (40 kilometers per hour and above).

Mission means the USAID Mission, office or representative in a cooperating/recipient country.

Nationality refers to the place of legal organization, ownership, citizenship, or lawful permanent residence (or equivalent immigration status to live and work on a continuing basis) of suppliers of commodities and services.

Pharmaceutical means any substance intended for use in the diagnosis, cure, mitigation, treatment, or prevention of diseases in humans or animals; any substances (other than food) intended to affect the structure or any function of the body of humans or animals; and, any substance intended for use as a component in the above. The term includes drugs, vitamins, oral rehydration salts, biologicals, and some
in-vitro diagnostic reagents/test kits; but does not include devices or their components, parts, or accessories. Contraceptives, including condoms, are not included in this definition. 

*Prohibited sources* means countries to which assistance is prohibited by the annual appropriations acts of Congress or other statutes, or those subject to other executive branch restrictions, such as applicable sanctions administered by the U.S. Treasury Department’s Office of Foreign Assets Control. USAID maintains a list of prohibited sources, available in USAID’s Automated Directives System, ADS 310.

**Recipients and contractors.** Recipient has the same meaning as defined in 22 CFR 226.02, except that it shall include non-U.S. individuals, entities and organizations, as well as subrecipients. **Contractors** mean those entities which enter into a contract, as the term is defined in 48 CFR part 2, with the U.S. Government, and includes subcontractors.

**Services** means the performance of identifiable tasks, rather than the delivery of an end item of supply. **Source** means the country from which a commodity is shipped to the cooperating/recipient country or the cooperating/recipient country itself if the commodity is located therein at the time of the purchase, irrespective of the place of manufacture or production, unless it is a prohibited source country. Where, however, a commodity is shipped from a free port or bonded warehouse in the form in which received therein, “source” means the country from which the commodity was shipped to the free port or bonded warehouse.

**Supplier** means any person or organization, governmental or otherwise, who furnishes services, commodities, and/or commodity related services, including delivery or incidental services, financed by USAID. **United States** means the United States of America, any State(s) of the United States, the District of Columbia, and areas of U.S. associated sovereignty, including commonwealths, territories, and possessions.

**USAID** means the United States Agency for International Development or any successor agency, including when applicable, each USAID Mission or office abroad. **USAID Principal Geographic Code** means a USAID code which designates a country, a group of countries, or an otherwise defined area. The USAID principal geographic codes for purposes of procurement are described in § 228.03.

3. Revise § 228.11 to read as follows:

**§ 228.11 Source of commodities.**

The source of all commodities financed with Federal program funds appropriated under the Foreign Assistance Act of 1961, as amended, shall be Code 937 (unless Code 935 or 110 are designated in the implementing instrument). Procurements of agricultural commodities, motor vehicles, and pharmaceuticals must also comply with the special procurement rules in § 228.19. Recipients and contractors are prohibited from engaging suppliers of commodities in an authorized country to import commodities from a country outside of the authorized principal geographic codes for the purposes of circumventing the requirements of this section. Any violation of the prohibition in the preceding sentence will result in the disallowance by USAID of the cost of the procurement of the subject commodity.

4. Revise § 228.30 to read as follows:

**§ 228.30 General.**

USAID may waive the rules contained in subparts A, B, and C of this part (except for prohibited sources as defined in § 228.01, and §§ 228.21 and 228.22), in order to accomplish project or program objectives. For any waivers authorized, the principal geographic code shall be Code 935, any area or country but excluding prohibited sources. All waivers must be in writing, and where applicable, are limited to the term established by the waiver. All waiver decisions will be made solely on the basis of the following criteria:

(a) Waivers to permit procurement outside of Code 937 or 110 must be based on a case by case determination that:

1. The provision of assistance requires commodities or services of the type that are not produced in and available for purchase in Code 937 or 110;

2. It is important to permit procurement from a country not specified in Code 937 or 110 to meet unforeseen circumstances; or

3. To promote efficiency in the use of United States foreign assistance resources, including to avoid impairment of foreign assistance objectives.

(b) Case by case waivers under paragraph (a) of this section may be made on the basis of a commodity or service type or category, rather than processing repeat, individual waivers for an identical or substantially similar commodity or service. Such waivers may be approved on a regional, country, or program basis. For purposes of paragraph (a)(1) of this section, “produced in and available for purchase in” shall have the same meaning as the definition of “available for purchase” in § 228.01. A waiver under paragraph (a)(1) of this section may also be based on the fact that a commodity is not available for purchase in Code 937 or 110 in sufficient, reasonable, and available quantities or sufficient and reasonable quality that is fit for the intended purpose.

(c) A waiver to authorize procurement from outside the United States of agricultural commodities, motor vehicles, and pharmaceuticals must meet the requirements of § 228.19.

(d) Any individual transaction not exceeding $25,000 (excluding those covered by special procurement rules in § 228.19, and excluding procurements from prohibited sources) does not require a waiver and is hereby authorized.

[FR Doc. 2021–09821 Filed 5–7–21; 8:45 am]

BILLING CODE 6116–02–P

**DEPARTMENT OF HOMELAND SECURITY**

**Coast Guard**

**33 CFR Part 165**

[**Docket Number USCG–2021–0287**]

**RIN 1625–AA00**

**Safety Zone; Lower Mississippi River, Mile Marker 770, Randolph Bluff, TN**

**AGENCY:** Coast Guard, DHS.

**ACTION:** Temporary final rule.

**SUMMARY:** The Coast Guard is establishing a temporary safety zone for all navigable waters of the Lower Mississippi River (LMR), Mile Marker 762 through 782. The safety zone is needed to protect persons, property, and the marine environment from the potential safety hazards associated with a rock replacement project in the vicinity of Randolph Bluff, TN. Entry of persons or vessels into this zone is prohibited unless authorized by the Captain of the Port Sector Lower Mississippi River or a designated representative.

**DATES:** This rule is effective without actual notice from May 10, 2021 until May 31, 2021. For the purposes of enforcement, actual notice will be used from April 27, 2021, until May 10, 2021.

**ADDRESSES:** To view documents mentioned in this preamble as being available in the docket, go to https://www.regulations.gov, type USCG–2021–0287 in the “SEARCH” box and click
FOR FURTHER INFORMATION CONTACT: If you have questions on this rule, call or email MSTC Lindsey Swindle, U.S. Coast Guard; telephone 901–521–4813, email Lindsey.M.Swindle@uscg.mil.

SUPPLEMENTARY INFORMATION:

I. Table of Abbreviations

CFR Code of Federal Regulations
COTP Captain of the Port Sector Lower Mississippi River
DHS Department of Homeland Security
FR Federal Register
NPRM Notice of proposed rulemaking
§ Section
U.S.C United States Code

II. Background Information and Regulatory History

The Coast Guard is issuing this temporary rule without prior notice and opportunity to comment pursuant to authority under section 4(a) of the Administrative Procedure Act (APA) (5 U.S.C. 553(b)). This provision authorizes an agency to issue a rule without prior notice and opportunity to comment when the agency for good cause finds that those procedures are “impracticable, unnecessary, or contrary to the public interest.” Under 5 U.S.C. 553(b)(B), the Coast Guard finds that good cause exists for not publishing a notice of proposed rulemaking (NPRM) with respect to this rule because it is impracticable. Immediate action is needed to protect persons and property from the potential safety hazards associated with the rock replacement project. The NPRM process would delay the establishment of the safety zone until after the date of the event and compromise public safety. We must establish this temporary safety zone immediately and lack sufficient time to provide a reasonable comment period and then consider those comments before issuing the rule. Under 5 U.S.C. 553(d)(3), the Coast Guard finds that good cause exists for making this rule effective less than 30 days after publication in the Federal Register. Delaying the effective date of this rule would be contrary to the public interest because immediate action is needed to respond to the potential safety hazards associated with the rock replacement project in the vicinity of Randolph Bluff, TN.

III. Legal Authority and Need for Rule

The Coast Guard is issuing this rule under authority in 33 U.S.C. 70034 (previously 33 U.S.C. 1231). The Captain of the Port Sector Lower Mississippi River (COTP) has determined that potential hazards associated with the rock replacement project, would be a safety concern for all persons and vessels on the Lower Mississippi River between Mile Marker (MM) 762 and MM 782 in the vicinity of Randolph Bluff, TN. This rule is needed to protect persons, property, infrastructure, and the marine environment in all waters of the LMR within the safety zone while the rock replacement project are being conducted.

IV. Discussion of the Rule

This rule establishes a temporary safety zone from April 27, 2021 through May 31, 2021. The safety zone will cover all navigable waters of the LMR from MM 762 through MM 782 in the vicinity of Randolph Bluff, TN. The duration of this safety zone is intended to ensure the safety of waterway users on these navigable waters during the rock replacement project.

Entry of persons or vessels into this safety zone is prohibited unless authorized by the COTP or a designated representative. A designated representative is a commissioned, warrant, or petty officer of the U.S. Coast Guard assigned to units under the operational control of USCG Sector Lower Mississippi River. Persons or vessels seeking to enter the safety zones must request permission from the COTP or a designated representative on VHF–FM channel 16 or by telephone at 901–521–4822. If permission is granted, all persons and vessels shall comply with the instructions of the COTP or designated representative. The COTP or a designated representative will inform the public of the enforcement times and date for this safety zone through Broadcast Notices to Mariners (BNMs), Local Notices to Mariners (LNMs), and/or Marine Safety Information Bulletins (MSIBs), as appropriate.

V. Regulatory Analyses

We developed this rule after considering numerous statutes and Executive orders related to rulemaking. Below we summarize the analyses based on a number of these statutes and Executive orders, and we discuss First Amendment rights of protestors.

A. Regulatory Planning and Review

Executive Orders 12866 and 13563 direct agencies to assess the costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits. This rule has not been designated a “significant regulatory action,” under Executive Order 12866. Accordingly, this rule has not been reviewed by the Office of Management and Budget (OMB).

This regulatory action determination is based on the size, location, and duration of the safety zone. This emergency safety zone will temporarily restrict navigation on the LMR at MM 762 through 782 in the vicinity of Randolph Bluff, TN, from April 27, 2021 through May 31, 2021. Moreover, the Coast Guard will issue Broadcast Notices to Mariners (BNMs), Local Notices to Mariners (LNMs), and/or Marine Safety Information Bulletins (MSIBs), as appropriate. The rule allows vessels to seek permission to enter the zone.

B. Impact on Small Entities

The Regulatory Flexibility Act of 1980, 5 U.S.C. 601–612, as amended, requires Federal agencies to consider the potential impact of regulations on small entities during rulemaking. The term “small entities” includes small businesses, not-for-profit organizations that are independently owned and operated and are not dominant in their fields, and governmental jurisdictions with populations of less than 50,000. The Coast Guard certifies under 5 U.S.C. 605(b) that this rule will not have a significant economic impact on a substantial number of small entities.

While some owners or operators of vessels intending to transit the temporary safety zone may be small entities, for the reasons stated in section V.A above, this rule will not have a significant economic impact on any vessel owner or operator.

Under section 213(a) of the Small Business Regulatory Enforcement Fairness Act of 1996 (Pub. L. 104–121), we want to assist small entities in understanding this rule. If the rule would affect your small business, organization, or governmental jurisdiction and you have questions concerning its provisions or options for compliance, please call or email the person listed in the FOR FURTHER INFORMATION CONTACT section.

Small businesses may send comments on the actions of Federal employees who enforce, or otherwise determine compliance with, Federal regulations to the Small Business and Agriculture Regulatory Enforcement Ombudsman and the Regional Small Business Regulatory Fairness Boards. The Ombudsman evaluates these actions annually and rates each agency’s responsiveness to small business. If you wish to comment on actions by employees of the Coast Guard, call 1–888–REG–FAIR (1–888–734–3247). The Coast Guard will not retaliate against
small entities that question or complain about this rule or any policy or action of the Coast Guard.

C. Collection of Information

This rule will not call for a new collection of information under the Paperwork Reduction Act of 1995 (44 U.S.C. 3501–3520).

D. Federalism and Indian Tribal Governments

A rule has implications for federalism under Executive Order 13132. Federalism, if it has a substantial direct effect on the States, on the relationship between the National Government and the States, or on the distribution of power and responsibilities among the various levels of government. We have analyzed this rule under that Order and have determined that it is consistent with the fundamental federalism principles and preemption requirements described in Executive Order 13132. Also, this rule does not have tribal implications under Executive Order 13175, Consultation and Coordination with Indian Tribal Governments, because it does not have a substantial direct effect on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes.

E. Unfunded Mandates Reform Act

The Unfunded Mandates Reform Act of 1995 (2 U.S.C. 1531–1538) requires Federal agencies to assess the effects of their discretionary regulatory actions. In particular, the Act addresses actions that may result in the expenditure by a State, local, or tribal government, in the aggregate, or by the private sector of $100,000,000 (adjusted for inflation) or more in any one year. Though this rule will not result in such an expenditure, we do discuss the effects of this rule elsewhere in this preamble.

F. Environment

We have analyzed this rule under Department of Homeland Security Directive 023–01, Rev. 1, associated implementing instructions, and Environmental Planning COMDTINST 5090.1 (series), which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (42 U.S.C. 4321–4370f), and have determined that this action is one of a category of actions that do not individually or cumulatively have a significant effect on the human environment. This rule involves a temporary safety zone on the LMR at MM 762 through 782 in the vicinity of Randolph Bluff, TN, that will prohibit entry into this zone. The safety zone will only be enforced while operations preclude the safe navigation of the established channel. It is categorically excluded from further review under paragraph L60 of Appendix A, Table 1 of DHS Instruction Manual 023–01–001–01, Rev. 1. A Record of Environmental Consideration supporting this determination is available in the docket. For instructions on locating the docket, see the ADDRESSES section of this preamble.

G. Protest Activities

The Coast Guard respects the First Amendment rights of protesters. Protesters are asked to call or email the person listed in the FOR FURTHER INFORMATION CONTACT section to coordinate protest activities so that your message can be received without jeopardizing the safety or security of people, places, or vessels.

List of Subjects in 33 CFR Part 165

Harbors, Marine safety, Navigation (water), Reporting and recordkeeping requirements, Security measures, Waterways.

For the reasons discussed in the preamble, the Coast Guard amends 33 CFR part 165 as follows:

PART 165—REGULATED NAVIGATION AREAS AND LIMITED ACCESS AREAS.

1. The authority citation for part 165 continues to read as follows:

Authority: 46 U.S.C. 70034, 70051; 33 CFR 1.05–1, 6.04–1, 6.04–6, and 160.5; Department of Homeland Security Delegation No. 0170.1.

2. Add §165.T08–0287 to read as follows:

§165.T08–0287 Safety Zone; Lower Mississippi River, Mile Marker 770, Randolph Bluff, TN.

(a) Location. The following area is a safety zone: All navigable waters of the Lower Mississippi River at Mile Marker (MM) 762 through 782 in the vicinity of Randolph Bluff, TN.

(b) Regulations. (1) Under the general safety zone regulations in subpart C of this part, you may not enter the safety zone described in paragraph (a) of this section unless authorized by the Captain of the Port Sector Lower Mississippi River (COTP) or the COTP’s designated representative. A designated representative is a commissioned, warrant, or petty officer of the U.S. Coast Guard assigned to units under the operational control of USCG Sector Lower Mississippi River.

(2) To seek permission to enter, contact the COTP or the COTP’s representative via VHF–FM channel 16 or by telephone at 901–521–4822. Those in the safety zone must comply with all lawful orders or directions given to them by the COTP or the COTP’s designated representative.

(c) Effective period. This section is effective from April 27, 2021 until May 31, 2021.

(d) Information broadcasts. The COTP or a designated representative will inform the public of the enforcement times and date for this safety zone through Broadcast Notices to Mariners, Local Notices to Mariners, and/or Safety Marine Information Broadcasts, as appropriate.


R.S. Rhodes,

Captain, U.S. Coast Guard, Captain of the Port Sector Lower Mississippi River.

[FR Doc. 2021–09865 Filed 5–7–21; 8:45 am]

BILLING CODE 9110–04–P

POSTAL SERVICE

39 CFR Parts 3 and 10

Bylaws of the Board of Governors of the United States Postal Service

AGENCY: Postal Service™.

ACTION: Final rule; technical amendments.

SUMMARY: This document includes several technical edits to the Bylaws of the Board of Governors to follow recent amendments to these regulations. This document also updates the provisions concerning financial reporting.


FOR FURTHER INFORMATION CONTACT: Michael J. Elston, Secretary of the Board of Governors, michael.j.elston@usps.gov, 202–268–4800.

SUPPLEMENTARY INFORMATION: On November 13, 2020, the Board of Governors approved amendments to its Bylaws to address a variety of issues. The Postal Service published the revised Bylaws in the Federal Register on February 18, 2021, and the changes were effective as of that same date. The Postal Service is now making several technical corrections following these changes. In addition, the Postal Service is updating the Bylaw provisions that concern financial reporting for the Board of Governors.

List of Subjects

39 CFR Part 3

Board of Governors.
39 CFR Part 10
Rules of Conduct for Postal Service Governors.
For the reasons stated in the preamble, the Postal Service amends 39 CFR chapter I as follows:

PART 3—BOARD OF GOVERNORS
1. The authority citation for part 3 continues to read as follows:

§ 3.3 [Amended]
2. Amend § 3.3 by removing the erroneous paragraph (3) following paragraph (b) and removing paragraphs (o), (p), (q), and (r).

§ 3.6 [Amended]
3. Amend § 3.6 by removing the semicolon at the end of paragraph (a)(5) and adding a period in its place and by removing paragraph (a)(6).
4. In § 3.7, revise paragraph (b) to read as follows:

§ 3.7 Information furnished to Board—program review.
* * * * * * (b) To enable the Board to review the effectiveness of the Postal Service’s equal employment opportunity program, performance data relating to this program shall be furnished to the Board at least annually. These data shall be categorized in such manner as the Board, from time to time, specifies.
* * * * * *

PART 10—RULES OF CONDUCT FOR POSTAL SERVICE GOVERNORS
5. The authority citation for part 10 continues to read as follows:
6. Revise § 10.4 to read as follows:

§ 10.4 Financial disclosure reports.
(a) Requirement of submission of reports—(1) Upon nomination. At the time of their nomination, Governors complete a financial disclosure report which, under the practice of the Senate Homeland Security and Governmental Affairs Committee, is kept confidential.
(2) After confirmation. Because the Director of the Office of Government Ethics has concluded that Governors who do not perform the duties of their office for more than 60 days in any calendar year are not required to file financial disclosure reports that are open to the public, Governors file non-public reports annually, in accordance with this section. A Governor who performs the duties of his or her office for more than 60 days in a particular calendar year is required to file a public report in accordance with 5 CFR 2634.204(c).
(b) Person with whom reports should be filed and time for filing. (1) A Governor shall file a financial disclosure report with the Associate General Counsel on or before May 15 of each year when the Governor has been in office for more than 60 consecutive calendar days during the previous year.
(2) The Associate General Counsel may, for good cause shown, grant to a Governor one or more extensions totaling not more than 90 days.
(c) Information required to be reported. Each report shall be a full and complete statement, on the form prescribed by the Associate General Counsel and the Office of Government Ethics and in accordance with instructions issued by him or her.
(d) Reviewing reports. (1) Financial disclosure reports filed in accordance with this program shall be furnished to the Associate General Counsel who shall either approve the report, or make an initial determination that a conflict or appearance thereof exists. If the Associate General Counsel determines initially that a conflict or the appearance of a conflict exists, he or she shall inform the Governor of his or her determination.
(2) If the Associate General Counsel considers that additional information is needed to complete the report or to allow an adequate review to be conducted, he or she shall request the reporting Governor to furnish that information by a specified date.
(3) The Associate General Counsel shall refer to the Chairman of the Board of Governors or the Vice Chairman the name of any Governor he or she has reasonable cause to believe has wrongfully failed to file a report or has falsified or wrongfully failed to report required information.
(e) Custody of and public access to reports—(1) Retention of reports. Each report filed with the Associate General Counsel shall be retained by him or her for a period of six years. After the six-year period, the report shall be destroyed unless needed in connection with an investigation then pending.
(2) Confidentiality of reports. Unless a public report is required by this section, the financial disclosure reports filed by Governors shall not be made public.

Michael J. Elston,
Secretary of the Board of Governors.
[FR Doc. 2021–09714 Filed 5–7–21; 8:45 am]
BILLING CODE 7710–12–P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 52

[40 CFR 52]

SUMMARY: The Environmental Protection Agency (EPA) is approving a State Implementation Plan (SIP) revision submitted by the State of South Dakota on January 3, 2020 that revises the Administrative Rules of South Dakota (ARSD), Air Pollution Control Program, updating the chapter pertaining to definitions. The EPA is taking this action pursuant to the Clean Air Act (CAA).

DATES: This rule is effective on June 9, 2021.


FOR FURTHER INFORMATION CONTACT: Kate Gregory, (303) 312–6175, kate@epa.gov. Mail can be directed to the Air and Radiation Division, U.S. EPA, Region 8, Mail code 8ARD–QP, 1595 Wynkoop Street, Denver, Colorado 80202–1129.

SUPPLEMENTARY INFORMATION: Throughout this document “we,” “us,” and “our” means the EPA.
I. Background

On January 3, 2020, the South Dakota submitted revisions and additions to the ARSD. In this action, we are approving the additions to the ARSD pertaining to the definitions section. The subject of this action is described in detail in our notice of proposed rulemaking (NPRM) published on February 24, 2021 (86 FR 11211).

II. Final Action

In this rulemaking, the EPA is approving the revisions to the ARSD submitted by the State of South Dakota on January 3, 2020, specifically the additions of 74:36:01:01(71) and 74:36:01:01(72) in the definitions section of the ARSD. The subsections of the ARSD definitions section we are approving, 74:36:01:01(71) and 74:36:01:01(72), contain the definitions of ‘closed landfill’ and ‘closed landfill subcategory’, respectively. In this action, we are approving the addition of the abovementioned subsections to the definitions section of the ARSD.

III. Incorporation by Reference

In this document, the EPA is finalizing regulatory text that includes incorporation by reference. In accordance with requirements of 1 CFR 51.5, the EPA is finalizing the incorporation by reference of ARSD, Air Pollution Control Program, updating the ARSD chapters pertaining to definitions as is described in the preamble. The EPA has made, and will continue to make, these materials generally available through www.regulations.gov and at the EPA Region 8 Office (please contact the person identified in the following section for more information). Therefore, these materials have been approved by the EPA for inclusion in the SIP, have been incorporated by reference by the EPA into that plan, are fully federally enforceable under sections 110 and 113 of the CAA as of the effective date of the final rulemaking of the EPA’s approval, and will be incorporated by reference in the next update to the SIP compilation.

IV. Statutory and Executive Order Reviews

Under the Clean Air Act, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable Federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.62(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve state choices, provided that they meet the criteria of the Clean Air Act. Accordingly, this action merely approves state law as meeting Federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this action:

- Is not a “significant regulatory action” subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011).
- Is not an Executive Order 13771 (82 FR 9339, February 2, 2017) regulatory action because SIP approvals are exempted under Executive Order 12866;
- Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
- Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
- Does not contain any unfunded mandate or significantly or uniquely affect small governments, described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);
- Does not have Federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);
- Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);
- Is not a significant regulatory action subject to Executive Order 12311 (66 FR 28355, May 22, 2001);
- Is not subject to requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the CAA; and
- Does not provide EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, the SIP is not approved to apply on any Indian reservation land or in any other area where EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of Congress and to the Comptroller General of the United States. EPA will submit a report containing this action and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by July 9, 2021. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of the action for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed.

TABLE 1—ARSD ADDITIONS THAT THE EPA IS APPROVING

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>74:36:01:01(71)</td>
<td>Approve</td>
</tr>
<tr>
<td>74:36:01:01(72)</td>
<td>Approve</td>
</tr>
</tbody>
</table>

1 The additional revisions and additions to the ARSD as they relate to the SIP referenced in the January 3, 2020 ARSD rule revision submission by the State of South Dakota were approved in an Ozone National Ambient Air Quality Standards; Revisions to Administrative Rules (85 FR 16538) Approval and Promulgation of State Plans for Designated Facilities and Pollutants; South Dakota; Control of Emissions From Existing Municipal Solid Waste Landfills).

2 ARSD numbering in the notice of proposed rulemaking for this action (86 FR 11211) was listed as 74:36:01:01(74) and 74:36:01:01(75). The correct numbering of the ARSD at the time of this action is as follows:

- 74:36:01:01(71)
- 74:36:01:01(72)
- 74:36:01:01(73)
- 74:36:01:01(74)
- 74:36:01:01(75)

3 The subsections as listed in the January 3, 2020 ARSD rule revision submission by the State of South Dakota were approved in a separate action (85 FR 16538).

4 62 FR 27968 (May 22, 1997).
and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements (see section 307(b)(2)).

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Greenhouse gases, Incorporation by reference, Intergovernmental relations, Lead, Nitrogen dioxide, Ozone, Particulate matter, Reporting and recordkeeping requirements, Sulfur oxides, Volatile organic compounds.


Debra H. Thomas,
Acting Regional Administrator, Region 8.

40 CFR part 52 is amended as follows:

PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS

1. The authority citation for part 52 continues to read as follows:

<table>
<thead>
<tr>
<th>Rule No.</th>
<th>Rule title</th>
<th>State effective date</th>
<th>EPA effective date</th>
<th>Final rule citation, date</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 74:36:01:01 | Definitions | 11/25/2019 | 6/9/2021 | [insert Federal Register citation], 5/10/2021 | * * * * *

* * * * *

[FR Doc. 2021–09863 Filed 5–7–21; 8:45 am]
BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 52


Air Plan Approval; Louisiana; Infrastructure State Implementation Plan Requirements for the National Ambient Air Quality Standards

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: Pursuant to the Federal Clean Air Act (CAA or the Act), the Environmental Protection Agency (EPA) is approving the State Implementation Plan (SIP) submittal from Louisiana submitted on November 4, 2020 for the 2015 ozone, as well as the 2006 PM<sub>2.5</sub>, 2008 ozone, 2010 nitrogen dioxide, 2010 sulfur dioxide and the 2012 PM<sub>2.5</sub> National Ambient Air Quality Standards. This submittal addresses how the existing SIP contains adequate provisions to meet the requirements that prohibit emissions from any source within a state from interfering with the visibility protection measures of other states. The submittal addresses how the existing SIP contains adequate provisions to meet the requirements with respect to the 2015 ozone NAAQS as well as the 2006 PM<sub>2.5</sub>, 2008 ozone, 2010 nitrogen dioxide, 2010 sulfur dioxide and the 2012 PM<sub>2.5</sub> NAAQS, as Louisiana now has a fully approved Regional Haze SIP. We did not receive any comments regarding our proposal.

II. Final Action

We are approving the SIP revision submitted on November 4, 2020 which addresses the Prong 4 requirements for the following NAAQS: 2015 Ozone, 2006 PM<sub>2.5</sub>, 2008 Ozone, 2010 Nitrogen dioxide, 2010 Sulfur Dioxide, and the 2012 PM<sub>2.5</sub> NAAQS. This action is being taken under section 110 of the Act.

III. Statutory and Executive Order Reviews

Under the CAA, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable Federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve state choices, provided that they meet the criteria of the CAA. Accordingly, this action merely approves state law as meeting Federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this action:

Authority: 42 U.S.C. 7401 et seq.

Subpart QQ—South Dakota

2. In §52.2170, the table in paragraph (c) is amended by revising the entry for “47:36-06-01” to read as follows:

§52.2170 Identification of plan.

* * * * *

(c) * * *

[Published May 10, 2021]
§ 52.996 [Amended]

3. Remove and reserve § 52.996(b).

[FR Doc. 2021-09625 Filed 5–7–21; 8:45 am]

BILLING CODE 6560–50–P

---

## EPA Approved Louisiana Nonregulatory Provisions and Quasi-Regulatory Measures

<table>
<thead>
<tr>
<th>Name of SIP provision</th>
<th>Applicable geographic or nonattainment area</th>
<th>State submittal date/ effective date</th>
<th>EPA approval date</th>
<th>Explanation</th>
</tr>
</thead>
</table>

---

§ 52.996 [Amended]

The Administrator of the United States Environmental Protection Agency (EPA) amends 40 CFR part 52 as follows:

1. The authority citation for part 52 continues to read as follows:

   Authority: 42 U.S.C. 7401 et seq.

---

### Subpart T—Louisiana

2. Amend § 52.970(e) by adding the entry “Visibility Transport SIP for the 2015 ozone, 2012 PM<sub>2.5</sub>, 2010 NO<sub>2</sub>, 2010 SO<sub>2</sub>, 2008 ozone and 2006 PM<sub>2.5</sub> NAAQS” at the end of the second table titled “EPA Approved Louisiana Nonregulatory Provisions and Quasi-Regulatory Measures” to read as follows:

<table>
<thead>
<tr>
<th>§ 52.970 Identification of plan.</th>
<th>*</th>
<th>*</th>
<th>*</th>
<th>*</th>
<th>*</th>
</tr>
</thead>
<tbody>
<tr>
<td>(e) * * * * *</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### List of Subjects in 40 CFR Part 52

- Environmental protection, Air pollution control, Incorporation by reference, Intergovernmental relations, Nitrogen dioxide, Ozone, Particulate matter, Visibility transport.


David Gray,

*Acting Regional Administrator, Region 6.*

For the reasons stated in the preamble, the Environmental Protection Agency amends 40 CFR part 52 as follows:

### PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS

- 1. The authority citation for part 52 continues to read as follows:

  Authority: 42 U.S.C. 7401 et seq.
ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 52


Air Plan Approval; Texas; Reasonable Further Progress Plan for the Houston-Galveston-Brazoria Ozone Nonattainment Area

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: Pursuant to the Federal Clean Air Act (CAA or the Act), the Environmental Protection Agency (EPA) is approving revisions to the Texas State Implementation Plan (SIP) to meet the Reasonable Further Progress (RFP) requirements for the Houston-Galveston-Brazoria (HGB) serious ozone nonattainment area for the 2008 ozone National Ambient Air Quality Standard (NAAQS). Specifically, EPA is approving the RFP demonstration and associated Motor Vehicle Emission Budgets (MVEBs), and a revised 2011 base year emissions inventory (EI) for the HGB area. EPA is also notifying the public of the status of EPA’s adequacy determination for the MVEBs for the HGB area. EPA is not finalizing the proposed approval of revisions to the SIP to address contingency measure requirements in the HGB area for the 2008 Ozone NAAQS at this time.

DATES: This rule is effective on June 9, 2021.

ADDRESSES: The EPA has established a docket for this action under Docket ID No. EPA–R06–OAR–2020–0300. All documents in the docket are listed on the https://www.regulations.gov website. Although listed in the index, some information is not publicly available, e.g., Confidential Business Information or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet. Publicly available docket materials are available electronically through https://www.regulations.gov.

FOR FURTHER INFORMATION CONTACT: Carrie Paige, EPA Region 6 Office, Infrastructure & Ozone Section, 214–665–6521, paige.carrie@epa.gov. Out of an abundance of caution for members of the public and our staff, the EPA Region 6 office may be closed to the public to reduce the risk of transmitting COVID–19. Please call or email the contact listed above if you need alternative access to material indexed but not provided in the docket.

SUPPLEMENTARY INFORMATION: Throughout this document “we,” “us,” and “our” means the EPA.

I. Background

The background for this action is discussed in detail in our September 29, 2020 proposal (85 FR 60928). In that action we proposed to approve only the HGB portion of the May 13, 2020, Texas SIP submittal that addressed RFP requirements for the 2008 8-hour ozone NAAQS for the two serious ozone nonattainment areas in Texas (“the TCEQ submittal”). These two areas are the HGB and the Dallas-Fort Worth (DFW) areas. The TCEQ submittal also establishes MVEBs for the year 2020 and includes contingency measures for each of the HGB and DFW areas, should the areas fail to make reasonable further progress, or to attain the NAAQS by the applicable attainment date. The portion of the TCEQ submittal that refers to the DFW area will be addressed in a separate rulemaking action.

One September 29, 2020 proposal provided a detailed description of the revisions and rationale for EPA’s proposed actions, together with a discussion of the opportunity to comment. The public comment period for these actions closed on October 29, 2020. We did not receive comments regarding our proposal. Therefore, with one exception, we are finalizing our action as proposed.

On January 29, 2021, the U.S. Court of Appeals for the District of Columbia Circuit (“D.C. Circuit”) issued a decision in response to challenges to EPA’s 2015 and 2018 rules implementing the NAAQS for ozone, (80 FR 12264 (March 6, 2015) and 83 FR 62998 (December 6, 2018)). Sierra Club, et al. v. EPA, 985 F.3d 1055 (D.C. Cir. 2021). Among the rulings in this decision, the D.C. Circuit vacated EPA’s interpretation of the CAA to allow states to rely on already implemented control measures to meet the statutory requirements of section 172(c)(9) or 182(c)(9) for contingency measures in nonattainment plans for the ozone NAAQS (see 83 FR 62998, 63026–27). The EPA is reexamining the contingency measures portion of the TCEQ submission for the HGB area in light of the D.C. Circuit decision. Therefore, we are not taking final action at this time on the contingency measures submitted as part of the May 13, 2020, TCEQ SIP submission for the HGB area included in the proposed action. EPA expects to address the contingency measures in a separate future action.

II. Final Action

We are approving revisions to the Texas SIP that address the RFP requirements for the HGB serious ozone nonattainment area for the 2008 ozone NAAQS. Specifically, we are approving the RFP demonstration and associated MVEBs, and the revised 2011 base year EI for the HGB area.

We are also notifying the public that EPA finds the newly established MVEBs for Nitrogen Oxides (NOx) and Volatile Organic Compounds (VOC) for the HGB area adequate for the purpose of transportation conformity. Within 24 months from this final rule, the transportation partners will need to demonstrate conformity to the new NOx and VOC MVEBs pursuant to 40 CFR 93.104(e)(3).

III. Statutory and Executive Order Reviews

Under the CAA, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable Federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve state choices, provided that they meet the criteria of the CAA. Accordingly, this action merely approves state law as meeting Federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this action:

• Is not a “significant regulatory action” subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);
• Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
• Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
• Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);
• Does not have federalism implications as specified in Executive
Order 13132 (64 FR 43255, August 10, 1999);  
- Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);  
- Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);  
- Is not subject to requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the CAA; and  
- Does not provide EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (65 FR 16282, March 21, 2000).  

In addition, the SIP is not approved to apply any Indian reservation land or in any other area where EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).  

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. EPA will submit a report containing this action and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).  

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by July 9, 2021. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this action for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2).)  

List of Subjects in 40 CFR Part 52  
Environmental protection, Air pollution control, Incorporation by reference, Ozone, Reporting and recordkeeping requirements, Volatile organic compounds.


David Gray,  
Acting Regional Administrator, Region 6.

For the reasons stated in the preamble, the Environmental Protection Agency amends 40 CFR part 52 as follows:

PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS  

1. The authority citation for part 52 continues to read as follows:  
Authority: 42 U.S.C. 7401 et seq.  

Subpart SS—Texas  

2. In § 52.2270(e), the table titled “EPA Approved Nonregulatory Provisions and Quasi-Regulatory Measures in the Texas SIP” is amended by adding the entry “Reasonable Further Progress Plan (RFP), RFP Motor Vehicle Emission Budgets for 2020, and Revised 2011 Base Year Emissions Inventory” at the end of the table to read as follows:

§ 52.2270 Identification of plan.  

(e) * * * *  

<table>
<thead>
<tr>
<th>Name of SIP provision</th>
<th>Applicable geographic or non-attainment area</th>
<th>State submittal/effective date</th>
<th>EPA approval date</th>
<th>Comments</th>
</tr>
</thead>
</table>

ACTION: Final rule.

SUMMARY: The Environmental Protection Agency (EPA) is approving a revision to the Washington State Implementation Plan (SIP) that was submitted by the Department of Ecology (Ecology) in coordination with the Spokane Regional Clean Air Agency (SRCAA). This revision updates the SIP with local SRCAA regulations that apply in lieu of, or in supplement to, Ecology’s statewide general air quality regulations for SRCAA’s jurisdiction. We are also approving SRCAA’s adoption by reference of certain Ecology general air quality regulations, which do not have local agency replacement corollaries, to apply in SRCAA’s jurisdiction.

DATES: This final rule is effective June 9, 2021.

ADDRESSES: The EPA has established a docket for this action under Docket ID No. EPA–R10–OAR–2020–0650. All documents in the docket are listed on the https://www.regulations.gov website. Although listed in the index, some information is not publicly available, e.g., Confidential Business Information or other information the disclosure of which is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available, e.g., Confidential Business Information or other information the disclosure of which is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available, e.g., Confidential Business Information or other information the disclosure of which is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available, e.g., Confidential Business Information or other information the disclosure of which is restricted by statute.
available only in hard copy form. Publicly available docket materials are available at https://www.regulations.gov, or please contact the person listed in the FOR FURTHER INFORMATION CONTACT section for additional availability information.

FOR FURTHER INFORMATION CONTACT: Jeff Hunt, EPA Region 10, 1200 Sixth Avenue—Suite 155, Seattle, WA 98101, at (206) 553–0256, or hunt.jeff@epa.gov.

SUPPLEMENTARY INFORMATION: Throughout this document, wherever “we,” “us,” or “our” is used, it means the EPA.

I. Background

On February 24, 2021, we proposed to approve an update to the SRCAA regulations in the SIP, remove obsolete regulations, and approve a subset of Ecology’s general air quality regulations adopted by reference to apply in SRCAA’s jurisdiction (86 FR 11204). The reasons for our proposed approval were stated in the proposed rulemaking and will not be re-stated here. The public comment period for our proposed action ended on March 26, 2021. We received no comments. Therefore, we are finalizing our action as proposed.

II. Final Action

A. Regulations Approved and Incorporated by Reference Into the SIP

The EPA is approving and incorporating by reference into the Washington SIP at 40 CFR 52.2470(c)—Table 9—Additional Regulations Approved for the Spokane Regional Clean Air Agency (SRCAA) Jurisdiction, the following SRCAA regulatory sections effective September 1, 2020:

- 1.01, 1.02, 1.03, 1.04, 1.05, 2.08, 2.09, 2.13, 2.14, 4.03, 4.04, 4.05, 5.02, 5.03, 5.04, 5.05, 5.06, 5.07, 5.08, 5.09, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.20, 6.04, 6.05, 6.07, 6.14, and 6.15.

The EPA is also approving and incorporating by reference in Regulation I, subsection 2.14(A)(1) that SRCAA and Ecology submitted to apply within SRCAA’s jurisdiction (effective date):


D. Scope of Proposed Action

This revision to the SIP applies specifically to the SRCAA jurisdiction incorporated into the SIP at 40 CFR 52.2470(c), Table 9. As discussed in our proposal, local air agency jurisdiction in Washington is generally defined on a geographic basis; however, there are exceptions. By statute, SRCAA does not have authority for sources under the jurisdiction of the Energy Facilities Site Evaluation Council (EFSEC). See Revised Code of Washington Chapter 80.50. Under the applicability provisions of WAC 173–405–012, 173–410–012, and 173–415–012, SRCAA also does not have jurisdiction for kraft pulp mills, sulfite pulping mills, and primary aluminum plants. For these sources, Ecology retains statewide, direct jurisdiction. Ecology and EFSEC also retain statewide, direct jurisdiction for issuing Prevention of Significant Deterioration (PSD) permits. Therefore, the EPA is not approving into 40 CFR 52.2470(c), Table 9 those provisions of Chapter 173–400 WAC related to the PSD program. Specifically, these provisions are WAC 173–400–116 and WAC 173–400–700 through 173–400–750, which the EPA has already approved as applying state-wide under 40 CFR 52.2470(c), Tables 2 and 3.

Also, as described in our proposal for this action, jurisdiction to implement the visibility permitting program contained in WAC 173–400–117 varies depending on the situation. Ecology and EFSEC retain authority to implement WAC 173–400–117 as it relates to PSD permits. However, for facilities subject to major nonattainment new source review (NSR) under the applicability provisions of WAC 173–400–800, we are approving SRCAA’s implementation of those parts of WAC 173–400–117 as they relate to major nonattainment NSR permits. Therefore, we are modifying the visibility protection Federal Implementation Plan contained in 40 CFR 52.2498 to reflect the approval of WAC 173–400–117 as it applies to implementation of the major nonattainment NSR program in SRCAA’s jurisdiction.

Lastly, this SIP revision is not approved to apply on any Indian reservation land within Spokane County and is also not approved to apply in any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction.

III. Incorporation by Reference

In this rule, the EPA is finalizing regulatory text that includes incorporation by reference. In accordance with requirements of 1 CFR
51.5, we are finalizing the incorporation by reference of certain provisions as described in section II.A. and removing provisions from the SIP as described in section II.C. of this preamble. The EPA has made, and will continue to make, materials incorporated by reference generally available through https://www.regulations.gov and at the EPA Region 10 Office (please contact the person identified in the FOR FURTHER INFORMATION CONTACT section of this preamble for more information).

Therefore, these materials have been approved by the EPA for inclusion in the SIP, have been incorporated by reference by the EPA into that plan, are fully federally-enforceable under sections 110 and 113 of the CAA as of the effective date of the final rule of the EPA’s approval, and will be incorporated by reference in the next update to the SIP compilation.

IV. Statutory and Executive Order Review

Under the CAA, the Administrator is required to approve a SIP submission that complies with the provisions of the CAA and applicable federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve State choices, provided that they meet the criteria of the CAA. Accordingly, this action merely approves State law as meeting federal requirements and does not impose additional requirements beyond those imposed by State law. For that reason, this action:

- Is not a “significant regulatory action” subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, May 4, 2011);
- Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
- Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
- Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);
- Does not have federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);
- Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);
- Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);
- Is not subject to requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because it does not address technical standards; and
- Does not provide the EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

This SIP revision is not approved to apply on any Indian reservation land within Spokane County and is also not approved to apply in any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. The EPA will submit a report containing this action and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

Under section 307(b)(1) of the CAA, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by July 9, 2021. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this action for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2)).

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Incorporation by reference, Intergovernmental relations, Lead, Nitrogen dioxide, Ozone, Particulate matter, Reporting and recordkeeping requirements, Sulfur oxides, Volatile organic compounds.


Michelle L. Pirzadeh,
Acting Regional Administrator, Region 10.

For the reasons set forth in the preamble, 40 CFR part 52 is amended as follows:

PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS

§ 52.2470 Identification of plan.

* * * * *

(c) * * *

1 62 FR 27968 (May 22, 1997).

Authority: 42 U.S.C. 7401 et seq.
TABLE 9—ADDITIONAL REGULATIONS APPROVED FOR THE SPOKANE REGIONAL CLEAN AIR AGENCY (SRCAA) JURISDICTION

[Applicable in Spokane county, excluding facilities subject to Energy Facilities Site Evaluation Council (EFSEC) jurisdiction; facilities subject to the Washington Department of Ecology’s direct jurisdiction under Chapters 173–405, 173–410, and 173–415 Washington Administrative Code (WAC); Indian reservations; any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction; and the Prevention of Significant Deterioration (PSD) permitting of facilities subject to the applicability sections of WAC 173–400–700.]

<table>
<thead>
<tr>
<th>State/local citation</th>
<th>Title/subject</th>
<th>State/local effective date</th>
<th>EPA approval date</th>
<th>Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01</td>
<td>Policy .................</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Subsections (A) and (B) replace WAC 173–400–010.</td>
</tr>
<tr>
<td>1.02</td>
<td>Name of Agency ........</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsections (17), (41), (52), (60), (74), (101), (112), (119), and (122). Section 1.04 replaces WAC 173–400–030 except the WAC 173–400–030 definitions list below.</td>
</tr>
<tr>
<td>1.03</td>
<td>Short Title ...............</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>1.04</td>
<td>General Definitions ........</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>1.05</td>
<td>Acronym Index ................</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>2.08</td>
<td>Falsification of Statements or Documents, and Treatment of Documents.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Subsections (E) and (F) only. Subsection (E) replaces WAC 173–400–105(6). Subsection (F) replaces WAC 173–400–105(8).</td>
</tr>
<tr>
<td>2.09</td>
<td>Source Tests .................</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Section 2.09 replaces WAC 173–400–105(4).</td>
</tr>
<tr>
<td>2.13</td>
<td>Federal and State Regula-tion Reference Date.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Subsection (A) replaces WAC 173–400–025.</td>
</tr>
<tr>
<td>2.14</td>
<td>Washington Administrative Codes (WACS).</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Subsection (A)(1) only, and only with respect to those revised Chapter 173–400 WAC provisions that are identified for incorporation by reference in the table below.</td>
</tr>
<tr>
<td>4.03</td>
<td>Registration Exemptions ..</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Subsections (B) and (C) only.</td>
</tr>
<tr>
<td>4.04</td>
<td>Stationary Sources and Source Categories Subject to Registration.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsections (A)(3)(u), (A)(3)(v), (A)(5)(b), (A)(5)(e)(9), or any other provision as it relates to the regulation of toxic air pollutants or odors.</td>
</tr>
<tr>
<td>4.05</td>
<td>Closure of a Stationary Source or Emissions Unit(s).</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>5.02</td>
<td>New Source Review—Applicability and when Required.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsections (C)(5) and (I). Section 5.02 replaces WAC 173–400–110. Subsection (F) replaces WAC 173–400–111(2).</td>
</tr>
<tr>
<td>5.03</td>
<td>NOC and PSP Fees ..........</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsection (A)(8). Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.04</td>
<td>Information Required .....</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsection (C)(15). Section 5.05 replaces WAC 173–400–171.</td>
</tr>
<tr>
<td>5.05</td>
<td>Public Involvement .........</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.06</td>
<td>Application Completeness Determination.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsections (A)(1)(g) and (B). Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111, and subsection 5.07(A)(7) replaces WAC 173–400–110(2)(a).</td>
</tr>
<tr>
<td>5.07</td>
<td>Processing NOC Applica-tions for Stationary Sources.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsection (A)(6). Section 5.08 replaces WAC 173–400–036.</td>
</tr>
<tr>
<td>5.08</td>
<td>Portable Sources ..........</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
</tbody>
</table>

Spokane Regional Clean Air Agency Regulation I

Article I—Policy, Short Title, and Definitions

Article II—General Provisions

Article IV—Registration

Article V—New Source Review for Stationary Sources and Portable Sources
## Table 9—Additional Regulations Approved for the Spokane Regional Clean Air Agency (SRCAA)

**Jurisdiction—Continued**

<table>
<thead>
<tr>
<th>State/local citation</th>
<th>Title/subject</th>
<th>State/local effective date</th>
<th>EPA approval date</th>
<th>Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.09</td>
<td>Operating Requirements for Order of Approval and Permission to Operate</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except subsection (C).</td>
</tr>
<tr>
<td>5.10</td>
<td>Changes to an Order of Approval or Permission to Operate.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.11</td>
<td>Notice of Startup of a Stationary Source or a Portable Source.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.12</td>
<td>Work Done Without an Approval.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.13</td>
<td>Order of Approval Construction Time Limits.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.14</td>
<td>Appeals</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
<tr>
<td>5.15</td>
<td>Obligation to Comply</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Collectively, sections 5.04, 5.06, 5.07, 5.10, 5.13, and 5.14 replace the permitting procedures in WAC 173–400–111.</td>
</tr>
</tbody>
</table>

### Article VI—Emissions Prohibited

| 6.04 | Emission of Air Contaminant: Detriment to Person or Property. | 09/01/20 | 5/10/21, [Insert Federal Register citation]. | Subsections (A), (B), (C), and (H) only and excepting provisions in RCW 70.94.640 (incorporated by reference) that relate to odor. Subsection (C) replaces WAC 173–400–040(6). |
| 6.05 | Particulate Matter & Preventing Particulate Matter from Becoming Airborne. | 09/01/20 | 5/10/21, [Insert Federal Register citation]. | Except subsection (A). Section 6.05 supplements but does not replace WAC 173–400–040(4) and (9). |
| 6.07 | Emission of Air Contaminant Concealment and Masking Restricted. | 09/01/20 | 5/10/21, [Insert Federal Register citation]. | Section 6.07 replaces WAC 173–400–040(8). |
| 6.14 | Standards for Control of Particulate Matter on Paved Surfaces. | 09/01/20 | 5/10/21, [Insert Federal Register citation]. | Section 6.14 supplements but does not replace WAC 173–400–040(9). |
| 6.15 | Standards for Control of Particulate Matter on Unpaved Roads. | 09/01/20 | 5/10/21, [Insert Federal Register citation]. | Section 6.15 supplements but does not replace WAC 173–400–040(9). |

### Article VIII—Solid Fuel Burning Device Standards

| 8.02 | Applicability | 9/02/14 | 9/28/15, 80 FR 58216. | |
| 8.03 | Definitions | 9/02/14 | 9/28/15, 80 FR 58216. | |
| 8.04 | Emission Performance Standards. | 9/02/14 | 9/28/15, 80 FR 58216 ... | |
| 8.05 | Opacity Standards | 9/02/14 | 9/28/15, 80 FR 58216. | |
| 8.06 | Prohibited Fuel Types | 9/02/14 | 9/28/15, 80 FR 58216. | |
| 8.07 | Curtailment | 9/02/14 | 9/28/15, 80 FR 58216. | |
| 8.08 | Exemptions | 9/02/14 | 9/28/15, 80 FR 58216. | |


| 173–400–020 | Applicability | 12/29/12 | 5/10/21, [Insert Federal Register citation]. | |
### Table 9—Additional Regulations Approved for the Spokane Regional Clean Air Agency (SRCAA)

<table>
<thead>
<tr>
<th>State/local citation</th>
<th>Title/subject</th>
<th>State/local effective date</th>
<th>EPA approval date</th>
<th>Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>173–400–030(24).</td>
<td>Definitions ..........................................</td>
<td>3/22/91</td>
<td>6/2/95, 60 FR 28726.</td>
<td>Only the following definitions: Adverse Impact on Visibility; Capacity Factor; Class I Area; Dispersion Technique; Emission Threshold; Excess Stack Height; Existing Stationary Facility; Federal Class I Area; Federal Land Manager; Fossil Fuel-fired Steam Generator; General Process Unit; Greenhouse Gases; Industrial Furnace; Mandatory Class I Federal Area; Natural Conditions; Projected Width; Reasonably Attributable; Sulfuric Acid Plant; and Wood Waste.</td>
</tr>
<tr>
<td>173–400–050 ...</td>
<td>Emission Standards for Combustion and Incineration Units.</td>
<td>9/16/18</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except (8).</td>
</tr>
<tr>
<td>173–400–060 ...</td>
<td>Emission Standards for General Process Units.</td>
<td>11/25/18</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>Except (7).</td>
</tr>
<tr>
<td>173–400–070 ...</td>
<td>Emission Standards for Certain Source Categories.</td>
<td>3/22/91</td>
<td>6/2/95, 60 FR 28726</td>
<td></td>
</tr>
<tr>
<td>173–400–081 ...</td>
<td>Startup and Shutdown ..................................</td>
<td>9/20/93</td>
<td>6/2/95, 60 FR 28726.</td>
<td>9/20/93 version continues to be approved under the authority of CAA Section 112(1) with respect to Section 112 hazardous air pollutants. See 60 FR 28726 (June 2, 1995).</td>
</tr>
<tr>
<td>173–400–107 ...</td>
<td>Excess Emissions ......................................</td>
<td>9/20/93</td>
<td>6/2/95, 60 FR 28726.</td>
<td></td>
</tr>
<tr>
<td>173–400–112 ...</td>
<td>Requirements for New Sources in Nonattainment Areas.</td>
<td>12/29/12</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–113 ...</td>
<td>Requirements for New Sources in Attainment or Unclassifiable Areas.</td>
<td>12/29/12</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–117 ...</td>
<td>Special Protection Requirements for Federal Class I Areas.</td>
<td>12/29/12</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–118 ...</td>
<td>Designation of Class I, II, and III Areas.</td>
<td>12/29/12</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–131 ...</td>
<td>Issuance of Emission Reduction Credits.</td>
<td>4/1/11</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–136 ...</td>
<td>Use of Emission Reduction Credits (ERC).</td>
<td>12/29/12</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–151 ...</td>
<td>Retrofit Requirements for Visibility Protection.</td>
<td>2/10/05</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–161 ...</td>
<td>Compliance Schedules ..................................</td>
<td>3/22/91</td>
<td>6/2/95, 60 FR 28726.</td>
<td></td>
</tr>
<tr>
<td>173–400–175 ...</td>
<td>Public Information .....................................</td>
<td>2/10/05</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–190 ...</td>
<td>Requirements for Non-attainment Areas.</td>
<td>3/22/91</td>
<td>6/2/95, 60 FR 28726.</td>
<td></td>
</tr>
<tr>
<td>173–400–200 ...</td>
<td>Creditable Stack Height and Dispersion Techniques.</td>
<td>2/10/05</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–205 ...</td>
<td>Adjustment for Atmospheric Conditions.</td>
<td>3/22/91</td>
<td>6/2/95, 60 FR 28726.</td>
<td></td>
</tr>
<tr>
<td>173–400–210 ...</td>
<td>Emission Requirements of Prior Jurisdictions.</td>
<td>3/22/91</td>
<td>6/2/95, 60 FR 28726.</td>
<td></td>
</tr>
</tbody>
</table>
### TABLE 9—ADDITIONAL REGULATIONS APPROVED FOR THE SPOKANE REGIONAL CLEAN AIR AGENCY (SRCAA) JURISDICTION—Continued

[Applicable in Spokane county, excluding facilities subject to Energy Facilities Site Evaluation Council (EFSEC) jurisdiction; facilities subject to the Washington Department of Ecology’s direct jurisdiction under Chapters 173–405, 173–410, and 173–415 Washington Administrative Code (WAC); Indian reservations; any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction; and the Prevention of Significant Deterioration (PSD) permitting of facilities subject to the applicability sections of WAC 173–400–700.]

<table>
<thead>
<tr>
<th>State/local citation</th>
<th>Title/subject</th>
<th>State/local effective date</th>
<th>EPA approval date</th>
<th>Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>173–400–800 ....</td>
<td>Major Stationary Source and Major Modification in a Nonattainment Area.</td>
<td>4/1/11</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td>EPA did not review WAC 173–400–800 through 860 for consistency with the August 24, 2016 PM2.5 implementation rule (81 FR 58010); nor does SRCAA have an obligation to submit rule revisions to address the 2016 PM2.5 implementation rule at this time.</td>
</tr>
<tr>
<td>173–400–810 ....</td>
<td>Major Stationary Source and Major Modification Definitions.</td>
<td>7/1/16</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–820 ....</td>
<td>Determining if a New Stationary Source or Modification to a Stationary Source is Subject to these Requirements.</td>
<td>12/29/12</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–830 ....</td>
<td>Permitting Requirements</td>
<td>7/1/16</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–840 ....</td>
<td>Emission Offset Requirements.</td>
<td>7/1/16</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–850 ....</td>
<td>Actual Emissions Plantwide Applicability Limitation (PAL).</td>
<td>7/1/16</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>173–400–860 ....</td>
<td>Public Involvement Procedures.</td>
<td>4/1/11</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
</tbody>
</table>

### TABLE 1—APPROVED BUT NOT INCORPORATED BY REFERENCE REGULATIONS

<table>
<thead>
<tr>
<th>State/local citation</th>
<th>Title/subject</th>
<th>State/local effective date</th>
<th>EPA approval date</th>
<th>Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington Department of Ecology Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>173–400–220 ....</td>
<td>Requirements for Board Members.</td>
<td>3/22/91</td>
<td>6/02/95, 60 FR 28726.</td>
<td></td>
</tr>
<tr>
<td>173–400–250 ....</td>
<td>Appeals .....................</td>
<td>9/20/93</td>
<td>6/02/95, 60 FR 28726.</td>
<td></td>
</tr>
<tr>
<td>173–400–260 ....</td>
<td>Conflict of Interest ........</td>
<td>7/01/16</td>
<td>10/06/16, 81 FR 69385.</td>
<td></td>
</tr>
<tr>
<td>Energy Facility Site Evaluation Council Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>463–78–140 ......</td>
<td>Appeals Procedure ..........</td>
<td>3/26/06</td>
<td>5/30/17, 82 FR 24533 ...... Except (3) and (4).</td>
<td></td>
</tr>
<tr>
<td>Benton Clean Air Agency Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.03 ..................</td>
<td>Powers and Duties of the Board of Directors.</td>
<td>12/11/14</td>
<td>11/17/15, 80 FR 71695.</td>
<td></td>
</tr>
<tr>
<td>2.05 ..................</td>
<td>Severability ................</td>
<td>12/11/14</td>
<td>11/17/15, 80 FR 71695.</td>
<td></td>
</tr>
<tr>
<td>State/local citation</td>
<td>Title/subject</td>
<td>State/local effective date</td>
<td>EPA approval date</td>
<td>Explanations</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------</td>
<td>---------------------------</td>
<td>------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>2.06 ...................</td>
<td>Confidentiality of Records and Information.</td>
<td>12/11/14</td>
<td>11/17/15, 80 FR 71695.</td>
<td></td>
</tr>
<tr>
<td>103 ....................</td>
<td>Duties and Powers</td>
<td>8/21/05</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>105 ....................</td>
<td>Separability</td>
<td>8/21/05</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>110 ....................</td>
<td>Investigation and Studies</td>
<td>8/21/05</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>111 ....................</td>
<td>Interference or Obstruction.</td>
<td>8/21/05</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>113 ....................</td>
<td>Service of Notice</td>
<td>12/22/07</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>114 ....................</td>
<td>Confidential Information</td>
<td>12/22/07</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>120 ....................</td>
<td>Hearings</td>
<td>12/22/07</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>124 ....................</td>
<td>Display of Orders, Certificates and Other Notices: Removal or Mutation Prohibited.</td>
<td>8/21/05</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>131 ....................</td>
<td>Notice to Violators</td>
<td>4/14/13</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>133 ....................</td>
<td>Civil Penalty</td>
<td>9/13/15</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>134 ....................</td>
<td>Restraining Orders—Injunction.</td>
<td>8/21/05</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>303 ....................</td>
<td>Work Done Without an Approval.</td>
<td>5/12/19</td>
<td>6/15/20, 85 FR 36156.</td>
<td></td>
</tr>
<tr>
<td>Olympic Region Clean Air Agency Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.1.6 ..................</td>
<td>Penalties</td>
<td>5/22/10</td>
<td>10/03/13, 78 FR 61188.</td>
<td></td>
</tr>
<tr>
<td>Puget Sound Clean Air Agency Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.01 ...................</td>
<td>Duties and Powers of the Control Officer.</td>
<td>11/01/99</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.05 ...................</td>
<td>Investigations by the Control Officer.</td>
<td>3/17/94</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.07 ...................</td>
<td>Compliance Tests</td>
<td>5/01/06</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.11 ...................</td>
<td>Civil Penalties</td>
<td>11/01/99</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.13 ...................</td>
<td>Criminal Penalties</td>
<td>9/12/91</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.15 ...................</td>
<td>Additional Enforcement</td>
<td>9/12/91</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.19 ...................</td>
<td>Confidential Information</td>
<td>9/12/91</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>3.21 ...................</td>
<td>Separability</td>
<td>9/12/91</td>
<td>4/22/20, 85 FR 22357.</td>
<td></td>
</tr>
<tr>
<td>Southwest Clean Air Agency Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>400–220 ............</td>
<td>Requirements for Board Members.</td>
<td>3/18/01</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>400–230 ............</td>
<td>Regulatory Actions and Civil Penalties.</td>
<td>10/9/16</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>400–240 ............</td>
<td>Criminal Penalties</td>
<td>3/18/01</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>400–250 ............</td>
<td>Appeals</td>
<td>11/9/03</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>400–260 ............</td>
<td>Conflict of Interest</td>
<td>3/18/01</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>400–270 ............</td>
<td>Confidentiality of Records and Information.</td>
<td>11/9/03</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>400–280 ............</td>
<td>Powers of Agency</td>
<td>3/18/01</td>
<td>4/10/17, 82 FR 17136.</td>
<td></td>
</tr>
<tr>
<td>Spokane Regional Clean Air Agency Regulations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.01 ...................</td>
<td>Powers and Duties of the Board.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
<tr>
<td>2.02 ...................</td>
<td>Control Office’s Duties and Powers.</td>
<td>09/01/20</td>
<td>5/10/21, [Insert Federal Register citation].</td>
<td></td>
</tr>
</tbody>
</table>

Section 2.02(E) replaces WAC 173–400–105(3).
SUMMARY: The Environmental Protection Agency (EPA) is taking final action to approve a revision to the Arizona State Implementation Plan (SIP). This revision concerns emissions of sulfur dioxide (SO\textsubscript{2}) from the copper smelter in Miami, Arizona. We are approving the rescission of two Arizona Department of Environmental Quality (ADEQ) Arizona Administrative Code (A.A.C.) provisions from the Arizona SIP that are no longer needed to regulate this emission source under the Clean Air Act (CAA or the “Act”).

DATES: This rule is effective on June 9, 2021.

ADDRESSES: The EPA has established a docket for this action under Docket ID No. EPA–R09–OAR–2020–0735. All documents in the docket are listed on the https://www.regulations.gov website. Although listed in the index, some information is not publicly available, e.g., Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available only in hard copy form. Publicly available docket materials are available through https://www.regulations.gov, or please contact the person identified in the FOR FURTHER INFORMATION CONTACT section for additional availability information. If you need assistance in a language other than English or if you are a person with disabilities who needs a reasonable accommodation at no cost to you, please contact the person identified in the FOR FURTHER INFORMATION CONTACT section.

FOR FURTHER INFORMATION CONTACT: Kevin Gong, EPA Region IX, 75 Hawthorne St., San Francisco, CA 94105. By phone: (415) 972–3073 or by email at gong.kevin@epa.gov.

SUPPLEMENTARY INFORMATION: Throughout this document, “we,” “us” and “our” refer to the EPA.

Table of Contents
I. Proposed Action
II. Public Comments and EPA Responses
III. EPA Action
IV. Incorporation by Reference
V. Statutory and Executive Order Reviews

I. Proposed Action

On March 3, 2021 (86 FR 12310), the EPA proposed to approve the following revision into the Arizona SIP.

Table 1—Rule for Which Rescission From the SIP Is Requested

<table>
<thead>
<tr>
<th>Local agency</th>
<th>Citation</th>
<th>Rule title</th>
<th>Adopted</th>
<th>SIP approval date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADEQ ..........</td>
<td>A.A.C. R18–2–715(F)(2) and (H).</td>
<td>Standards of Performance for Existing Primary Copper Smelters; Site-specific Requirements.</td>
<td>March 7, 2009</td>
<td>September 23, 2014.</td>
</tr>
</tbody>
</table>

We proposed to approve this revision because we determined that it complies with the relevant CAA requirements. Our proposed action contains more information on the revision and our evaluation.

II. Public Comments and EPA Responses

The EPA’s proposed action provided a 30-day public comment period. During
this period, we received one comment (with four duplicates) that were supportive of our action.

III. EPA Action

No comments were submitted that change our assessment of the revision as described in our proposed action. Therefore, as authorized in section 110(k)(3) of the Act, the EPA is fully approving the rescission of A.A.C. R18–2–715, sections (F)(2) and (H) from the Arizona SIP.

IV. Incorporation by Reference

In this rule, the EPA is amending regulatory text that includes incorporation by reference. The EPA is removing A.A.C. R18–2–715(F)(2) and (H), as described in Table 1 of this preamble, from the Arizona SIP, which is incorporated by reference in accordance with the requirements of 1 CFR part 51.

V. Statutory and Executive Order Reviews

Under the Clean Air Act, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable Federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, the EPA's role is to approve state choices, provided that they meet the criteria of the Clean Air Act. Accordingly, this action merely approves state law as meeting Federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this action:

• Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);• Does not have federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);
• Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);
• Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);
• Is not subject to requirements of Section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the Clean Air Act; and
• Does not provide the EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, the SIP is not approved to apply on any Indian reservation land or in any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. The EPA will submit a report containing this action and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by July 9, 2021. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this action for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2).)

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Incorporation by reference, Intergovernmental relations, Reporting and recordkeeping requirements, Sulfur oxides.


Deborah Jordan,
Acting Regional Administrator, Region IX.

Part 52, chapter I, title 40 of the Code of Federal Regulations is amended as follows:

PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS

1. The authority citation for part 52 continues to read as follows:

Authority: 42 U.S.C. 7401 et seq.

Subpart D—Arizona

2. In § 52.120, amend table 2 in paragraph (c), under the heading “Article 7 (Existing Stationary Source Performance Standards),” by removing the entry reading “R18–2–715, sections F, G, and H” and adding in its place the entry “R18–2–715, section F, excluding (F)(2), and section G” to read as follows:

§ 52.120 Identification of plan.

* * * * *

(c) * * *
III. Final Action

For the reasons stated in our February 25, 2021 proposed rule, the EPA is finalizing approval of SIP revisions submitted by the State of Utah on November 5, 2019. EPA is approving:

- Removal of R307–204–10. Requirements for Wildland Fire Use events. This deletion is removing outdated smoke policy terminology, such as, wildland fire use.

The revisions for R307–204 meet the applicable CAA requirements and contains smoke management requirements for land managers within the State of Utah as required by 40 CFR 51.309(d)(6).

IV. Incorporation by Reference

In this document, the EPA is finalizing regulatory text that includes incorporation by reference. In accordance with requirements of 1 CFR 51.5, the EPA is incorporating by reference R307–204–1; R307–204–2; R307–204–3; R307–204–4; R307–204–5; combination of R307–204–6 and R307–204–7, under R307–204–6 for streamlining; combination of R307–204–8 and R307–204–9, under R307–204–7; and the removal of R307–204–10 due to outdated information. The EPA has

---

**TABLE 2—EPA-APPROVED ARIZONA REGULATIONS**

<table>
<thead>
<tr>
<th>State citation</th>
<th>Title/subject</th>
<th>State effective date</th>
<th>EPA approval date</th>
<th>Additional explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>* * * * * *</td>
<td>Article 7 (Existing Stationary Source Performance Standards)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R18–2–715, section F, excluding (F)(2), and section G.</td>
<td>Standards of Performance for Existing Primary Copper Smelters: Site-Specific Requirements.</td>
<td>March 7, 2009</td>
<td>September 23, 2014, 79 FR 56655; May 10, 2021, [INSERT Federal Register CITATION].</td>
<td>EPA approved the rescission of sections (F)(2) and (H) on May 10, 2021.</td>
</tr>
</tbody>
</table>

---

**INFORMATION CONTACT** section for additional availability information.

**FOR FURTHER INFORMATION CONTACT:** Amrita Singh, Air and Radiation Division, EPA, Region 8, Mailcode 8ARD–QF, 1595 Wynkoop Street, Denver, Colorado 80222–1129, (303) 312–6103, singh.amrita@epa.gov.

**SUPPLEMENTARY INFORMATION:** Throughout this document wherever “we,” “us” or “our” is used, we mean the EPA.

**I. Background**


**II. Response to Comments**

The comment period for our February 25, 2021 proposed rule was open for 30 days. The EPA did not receive any comments.

---

[FR Doc. 2021–09634 Filed 5–7–21; 8:45 am]

BILLING CODE 6560–50–P

**ENVIRONMENTAL PROTECTION AGENCY**

40 CFR Part 52


Approval and Promulgation of Implementation Plans; Utah; R307–204 Emission Standards: Smoke Management

**AGENCY:** Environmental Protection Agency (EPA).

**ACTION:** Final rule.

**SUMMARY:** The Environmental Protection Agency (EPA) is approving state implementation plan (SIP) revisions submitted by State of Utah on November 5, 2019. The revisions amend R307–204 to meet the requirements set forth in Utah’s 2019 House Bill (H.B.) 155. This action is being taken under section 110 of the Clean Air Act (CAA).

**DATES:** This rule is effective on June 9, 2021.

**ADDRESSES:** The EPA has established a docket for this action under Docket ID No. EPA–R08–OAR–2020–0541. All documents in the docket are listed on the http://www.regulations.gov website. Although listed in the index, some information is not publicly available, e.g., CBI or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available only in hard copy form. Publicly available docket materials are available through http://www.regulations.gov, or please contact the person identified in the FOR FURTHER
made, and will continue to make, these materials generally available through www.regulations.gov and at the EPA Region 8 Office (please contact the person identified in the FOR FURTHER INFORMATION CONTACT section of this preamble for more information). Therefore, these materials have been approved by the EPA for inclusion in the SIP, have been incorporated by reference by the EPA into that plan, are fully federally enforceable under sections 110 and 113 of the CAA as of the effective date of the final rulemaking of the EPA’s approval, and will be incorporated by reference in the next update to the SIP compilation. 1

V. Statutory and Executive Orders Review

Under the CAA, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve state choices, provided that they meet the criteria of the CAA. Accordingly, this action merely proposes to approve state law as meeting federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this action:

• Is not a “significant regulatory action” subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);  
• Is not an Executive Order 13771 (82 Federal Register No. 2017) regulatory action because SIP approvals are exempted under Executive Order 12866;  
• Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);  
• Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);  
• Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);  
• Does not have federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);  
• Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);  
• Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);  
• Is not subject to requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the CAA; and  
• Does not provide the EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, the SIP is not approved to apply on any Indian reservation land or in any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the proposed rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 76249, November 9, 2000).

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. EPA will submit a report containing this action and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by July 9, 2021. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this action for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements (see section 307(b)(2)).

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Incorporation by reference, Intergovernmental relations, Nitrogen dioxide, Ozone, Particulate matter, Reporting and recordkeeping requirements, Sulfur dioxide, Volatile organic compounds.

Authority: 42 U.S.C. 7401 et seq.


Debra H. Thomas,  
Acting Regional Administrator, Region 8.

40 CFR part 52 is amended as follows:

PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS

1. The authority citation for part 52 continues to read as follows:

Authority: 42 U.S.C. 7401 et seq.

Subpart TT—Utah

2. In § 52.2320, the table in paragraph (c) is amended by:


The revisions read as follows:

§ 52.2320 Identification of plan.

* * * * *

(c) R307–204. Emission Standards: Smoke Management


1 62 FR 27968 (May 22, 1997).
I. Background

On September 25, 2020, WDNR submitted its LMWC negative declaration withdrawal, in which it certifies that there is one LMWC unit currently operating in Wisconsin. The only LMWC unit is at Xcel French Island, located in La Crosse, WI. Because there is only one source, WDNR is requesting that the previously approved negative declaration be withdrawn and that the Federal Plan continue to apply to the source.

On March 1, 2021 (86 FR 11916), EPA published a notice of proposed rulemaking (NPRM) proposing approval of Wisconsin’s LMWC Negative Declaration withdrawal. The specific details of Wisconsin’s request and the rationale for EPA’s approval are discussed in the NPRM and will not be restated here. EPA did not receive any comments on the proposed action.

II. What action is EPA taking?

EPA is approving Wisconsin’s request for withdrawal of the previously approved LMWC unit currently operating in the State of Wisconsin, and requested that the Federal Plan apply to the single source in the State. EPA understands that the extensive work that would be required by WDNR to prepare an approved State Plan would be disproportionate to the single affected source in Wisconsin, and proposed to approve the withdrawal and have the Federal Plan continue to apply to the known affected source.

In this action, EPA is finalizing its approval. EPA is also revising 40 CFR 62.12360 to reflect this withdrawal.

III. Statutory and Executive Order Reviews

In reviewing section 111(d)/129 plan submissions, EPA’s role is to approve State choices, provided that they meet the criteria of the Clean Air Act (CAA). With regard to withdrawals for designated facilities received by EPA from states, EPA’s role is to notify the public of the approval of the State’s withdrawal and revise 40 CFR part 62 accordingly. Accordingly, this action merely notifies the public of EPA’s approval for a withdrawal of a previously approved LMWC negative declaration and does not impose additional requirements. For that reason, this action:

• Is not a significant regulatory action subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);
• Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
• Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
• Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4); and
• Does not have federalism implications as specified in Executive

<table>
<thead>
<tr>
<th>Rule No.</th>
<th>Rule title</th>
<th>State effective date</th>
<th>Final rule citation, date</th>
<th>Comments</th>
</tr>
</thead>
</table>

[FR Doc. 2021–09240 Filed 5–7–21; 8:45 am]
BILLING CODE 6560–50–P
Order 13132 (64 FR 43255, August 10, 1999);

• Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);

• Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);

• Is not subject to requirements of Section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the CAA; and

• Does not provide EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, this is not approved to apply on any Indian reservation land or in any other area where EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. EPA will submit a report containing this action and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

Under section 307(b)(1) of the CAA, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by July 9, 2021. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this action for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2).)

List of Subjects in 40 CFR Part 62

Environmental protection, Air pollution control, Administrative practice and procedure, Intergovernmental relations, Large municipal waste combustors, Reporting and recordkeeping requirements.


Cheryl Newton,
Acting Regional Administrator, Region 5.

For the reasons stated in the preamble, EPA amends 40 CFR part 62 as follows:

PART 62—APPROVAL AND PROMULGATION OF STATE PLANS FOR DESIGNATED FACILITIES AND POLLUTANTS

§ 62.12360 Identification of plan.

On September 25, 2020, the Wisconsin Department of Natural Resources submitted a withdrawal letter to EPA certifying that there is only one Large Municipal Waste Combustor unit in the State of Wisconsin subject to the emissions guidelines at 40 CFR part 60, subpart Eb, and requested that the Federal Plan at subpart FFF of this part, apply.

[FR Doc. 2021–09808 Filed 5–7–21; 8:45 am]
BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 180


Poly(oxy-1,2-ethanediyl), α, α’-[4-[(3-sulfophenyl)azo]phenyl]imino[di-2,1-ethanediyl]bis[ω-hydroxy-], monosodium salt; Exemption From the Requirement of a Tolerance

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This regulation establishes an exemption from the requirement for a tolerance for residues of Poly(oxy-1,2-ethanediyl), α, α’-[4-[(3-sulfophenyl)azo]phenyl]imino[di-2,1-ethanediyl]bis[ω-hydroxy-], monosodium salt when used as an inert ingredient (colorant) in pesticide formulations applied to seed treatment slurries for raw agricultural commodities and not to exceed 20% weight/weight (wt/wt). Milliken Chemical submitted a petition to EPA under the Federal Food, Drug, and Cosmetic Act (FFDCA) requesting establishment of an exemption from the requirement of a tolerance. This regulation eliminates the need to establish a maximum permissible level for residues of Poly(oxy-1,2-ethanediyl), α, α’-[4-[(3-sulfophenyl)azo]phenyl]imino[di-2,1-ethanediyl]bis[ω-hydroxy-], monosodium salt.

DATES: This regulation is effective May 10, 2021. Objections and requests for hearings must be received on or before July 9, 2021, and must be filed in accordance with the instructions provided in 40 CFR part 178 (see also Unit I.C. of the SUPPLEMENTARY INFORMATION).

ADDRESSES: The docket for this action, identified by docket identification (ID) number EPA–HQ–OPP–2019–0607, is available at http://www.regulations.gov or at the Office of Pesticide Programs Regulatory Public Docket (OPP Docket) in the Environmental Protection Agency Docket Center (EPA/DC), West William Jefferson Clinton Bldg., Rm. 3334, 1301 Constitution Ave. NW, Washington, DC 20460–0001. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566–1744, and the telephone number for the OPP Docket is (703) 365–5805.

Due to the public health concerns related to COVID–19, the EPA Docket Center (EPA/DC) and Reading Room is closed to visitors with limited exceptions. The staff continues to provide remote customer service via email, phone, and webform. For the latest status information on EPA/DC services and docket access, visit https://www.epa.gov/dockets.

FOR FURTHER INFORMATION CONTACT: Marietta Echeverria, Registration Division (7505P), Office of Pesticide Programs, Environmental Protection Agency, 1200 Pennsylvania Ave. NW, Washington, DC 20460–0001; main telephone number: (703) 305–7090; email address: RDFINotices@epa.gov.

SUPPLEMENTARY INFORMATION:

I. General Information

A. Does this action apply to me?

You may be potentially affected by this action if you are an agricultural producer, food manufacturer, or pesticide manufacturer. The following list of North American Industrial Classification System (NAICS) codes is not intended to be exhaustive, but rather...
provides a guide to help readers determine whether this document applies to them. Potentially affected entities may include:

- Crop production (NAICS code 111).
- Animal production (NAICS code 112).
- Food manufacturing (NAICS code 311).
- Pesticide manufacturing (NAICS code 32532).

B. How can I get electronic access to other related information?


C. How can I file an objection or hearing request?

Under FFDCA section 408(g), 21 U.S.C. 346a(g), any person may file an objection to any aspect of this regulation and may also request a hearing on those objections. You must file your objection or request a hearing on this regulation in accordance with the instructions provided in 40 CFR part 178. To ensure proper receipt by EPA, you must identify docket ID number EPA–HQ–OPP–2019–0607 in the subject line on the first page of your submission. All objections and requests for a hearing must be in writing and must be received by the Hearing Clerk on or before July 9, 2021. Addresses for mail and hand delivery of objections and hearing requests are provided in 40 CFR 178.25(b).

In addition to filing an objection or hearing request with the Hearing Clerk as described in 40 CFR part 178, please submit a copy of the filing (excluding any Confidential Business Information (CBI)) for inclusion in the public docket. Information not marked confidential pursuant to 40 CFR part 2 may be disclosed publicly by EPA without prior notice. Submit the non-CBI copy of your objection or hearing request, identified by docket ID number EPA–HQ–OPP–2019–0607, by one of the following methods:

- Federal eRulemaking Portal: http://www.regulations.gov. Follow the online instructions for submitting comments. Do not submit electronically any information you consider to be CBI or other information whose disclosure is restricted by statute.
- Hand Delivery: To make special arrangements for hand delivery or delivery of boxed information, please follow the instructions at http://www.epa.gov/dockets/contacts.html. Additional instructions on commenting or visiting the docket, along with more information about dockets generally, is available at http://www.epa.gov/dockets.

II. Petition for Exemption

In the Federal Register of February 11, 2020 (85 FR 7708) (FRL–10005–02), EPA issued a document pursuant to FFDCA section 408, 21 U.S.C. 346a, announcing the filing of a pesticide petition (PP IN–11359) by Milliken Chemical, 920 Milliken Rd., M–209 Spartanburg, SC 29303. The petition requested that 40 CFR 180.920 be amended by establishing an exemption from the requirement of a tolerance for residues of Poly(oxy-1,2-ethanediyl), α, α′-[[4-[[3-sulfophenyl]azo]phenyl]limino]di-2,1-ethanediyl]bis[α-hydroxy]-monosodium salt (CAS Reg. No. N/A) when used as an inert ingredient (colorant) in pesticide formulations applied to seed treatment slurries for raw agricultural commodities not to exceed 20% (wt/wt). That document referenced a summary of the petition prepared by Milliken Chemical, the petitioner, which is available in the docket, http://www.regulations.gov. There were no comments received in response to the notice of filing.

III. Inert Ingredient Definition

Inert ingredients are all ingredients that are not active ingredients as defined in 40 CFR 153.125 and include, but are not limited to, the following types of ingredients (except when they have a pesticidal efficacy of their own):

- Solvents such as alcohols and hydrocarbons; surfactants such as polyoxyethylene polymers and fatty acids; carriers such as clay and diatomaceous earth; thickeners such as carrageenan and modified cellulose; wetting, spreading, and dispersing agents; propellants in aerosol dispensers; microencapsulating agents; and emulsifiers. The term “inert” is not intended to imply nontoxicity; the ingredient may or may not be toxicologically active. Generally, EPA has exempted inert ingredients from the requirement of a tolerance based on the low toxicity of the individual inert ingredients.

IV. Aggregate Risk Assessment and Determination of Safety

Section 408(c)(2)(A)(i) of FFDCA allows EPA to establish an exemption from the requirement for a tolerance (the legal limit for a pesticide chemical residue in or on a food) only if EPA determines that the tolerance is “safe.” Section 408(c)(2)(A)(ii) of FFDCA defines “safe” to mean that “there is a reasonable certainty that no harm will result from aggregate exposure to the pesticide chemical residue, including all anticipated dietary exposures and all other exposures for which there is reliable information.” This includes exposure through drinking water and in residential settings but does not include occupational exposure. Section 408(b)(2)(C) and (c)(2)(B) of FFDCA requires EPA to give special consideration to exposure of infants and children to the pesticide chemical residue in establishing a tolerance or exemption and to “ensure that there is a reasonable certainty that no harm will result to infants and children from aggregate exposure to the pesticide chemical residue . . . .”

EPA establishes exemptions from the requirement of a tolerance only in those cases where it can be clearly demonstrated that the risks from aggregate exposure to pesticide chemical residues under reasonably foreseeable circumstances will pose no appreciable risks to human health. In order to determine the risks from aggregate exposure to pesticide inert ingredients, the Agency considers the toxicity of the inert in conjunction with possible exposure to residues of the inert ingredient through food, drinking water, and through other exposures that occur as a result of pesticide use in residential settings. If EPA is able to determine that a finite tolerance is not necessary to ensure that there is a reasonable certainty that no harm will result from aggregate exposure to the inert ingredient, an exemption from the requirement of a tolerance may be established.

Consistent with FFDCA section 408(c)(2)(A), and the factors specified in FFDCA section 408(c)(2)(B), EPA has reviewed the available scientific data and other relevant information in support of this action. EPA has sufficient data to assess the hazards of and to make a determination on aggregate exposure for Poly(oxy-1,2-ethanediyl), α, α′-[[4-[[3-sulfophenyl]azo]phenyl]limino]di-2,1-ethanediyl]bis[α-hydroxy]-monosodium salt including exposure resulting from the exemption established by this action. EPA’s assessment of exposures and risks associated with Poly(oxy-1,2-ethanediyl), α, α′-[[4-[[3-sulfophenyl]azo]phenyl]limino]di-2,1-
A. Toxicological Profile

EPA has evaluated the available toxicity data and considered their validity, completeness, and reliability as well as the relationship of the results of the studies to human risk. EPA has also considered available information concerning the variability of the sensitivities of major identifiable subgroups of consumers, including infants and children. Specific information on the studies received and the nature of the adverse effects caused by Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt as well as the no-observed-adverse-effect level (NOAEL) and the lowest-observed-adverse-effect level (LOAEL) from the toxicity studies are discussed in this unit.

In acute studies, exposure to Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt resulted in no observable or minimal toxicity. The acute oral median lethal dose (LD\(_{50}\)) in rats is >2,000 mg/kg. Minimal dermal irritation was observed in an acute dermal study with rabbits. No indications of sensitization have been observed in local lymph node assays.

Two reverse mutation assays (OECD 471), a mouse lymphoma assay (OECD 476) and an in vitro micronucleus test (OECD 487) found Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt to not be mutagenic.

In a combined repeat dose developmental/reproduction study (OECD 422), there were no adverse effects from oral administration of Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt up to 1000 mg/kg/day on any parameter measured, including gonadal function, mating performance, conceptus or parturition. The NOAEL for these parameters was 1000 mg/kg/day for males and females. The NOAEL for reproductive performance and fetal/developmental toxicity was also considered to be 1,000 mg/kg/day.

B. Toxicological Points of Departure/Levels of Concern

Based on available studies provided for Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt, no toxicological endpoint of concern was identified, and a quantitative risk assessment is not required for this compound.

C. Exposure Assessment

1. Dietary exposure from food and feed uses. In evaluating dietary exposure to Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt, EPA considered exposure under the proposed exemption from the requirement of a tolerance. EPA assessed dietary exposures from Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt in food as follows:

Dietary exposure (food and drinking water) to Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt is not expected to occur due to its intended use as a colorant for seed treatment. Seed treatment formulas containing Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt will be applied directly to seeds and if released into the environment, the colorant will not be taken up by the germinating seedling and translocated within the plant vascular system to result in crop residues and dietary exposures.

2. Dietary exposure from drinking water. Since a hazard endpoint of concern was not identified for the acute and chronic dietary assessment, a quantitative dietary exposure risk assessment for drinking water was not conducted.

3. From non-diary exposure. The term “residential exposure” is used in this document to refer to non-occupational, non-dietary exposure (e.g., textiles (clothing and diapers), carpets, swimming pools, and hard surface disinfection on walls, floors, tables). Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt may be used in pesticide products and non-pesticide products used in and around the home that would have residential exposures. However, because no toxicological endpoint of concern was identified, a quantitative residential exposure assessment for Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt was not conducted.

4. Cumulative effects from substances with a common mechanism of toxicity. Section 408(b)(2)(D)(v) of FFDCA requires that, when considering whether to establish, modify, or revoke a tolerance or exemption, the Agency consider “available information” concerning the cumulative effects of a particular pesticide’s residues and “other substances that have a common mechanism of toxicity.” EPA has not found Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt to share a common mechanism of toxicity with any other substances, and Poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt does not appear to produce a toxic metabolite produced by other substances. For the purposes of this action, therefore, EPA has assumed that poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt does not have a common mechanism of toxicity with other substances. For information regarding EPA’s efforts to determine which chemicals have a common mechanism of toxicity and to evaluate the cumulative effects of such chemicals, see EPA’s website at http://www.epa.gov/pesticides/cumulative.

D. Safety Factor for Infants and Children

Based on the lack of threshold effects, EPA has not identified any toxicological endpoints of concern and is conducting a qualitative assessment of poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt. That qualitative assessment does not use safety factors for assessing risk, and no additional safety factor is needed for assessing risk to infants and children. Based on an assessment of poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt, EPA has concluded that there are no toxicological endpoints of concern for the U.S. population, including infants and children.

E. Aggregate Risks and Determination of Safety

Taking into consideration all available information on poly(oxy-1,2-ethanediyl), \( \alpha, \alpha'-[[4-[(3-sulfophenyl)azo]phenyl]limino]di-2,1-ethanediyl]bis(\omega-hydroxy)- 

monosodium salt when used as an inert
ingredient (colorant) in pesticide formulations applied to seed treatment slurries for raw agricultural commodities and not to exceed 20% (wt/wt), EPA has determined that there is a reasonable certainty that no harm to the general population or any population subgroup, including infants and children, will result from aggregate exposure to poly(oxy-1,2-ethanediyl), α, α′-[4-(3-sulfophenyl)azo]phenyl]imino-di-2,1-ethanediyl]bis[ω-hydroxy]-monosodium salt. Therefore, the establishment of an exemption from tolerance under 40 CFR 180.920 for poly(oxy-1,2-ethanediyl), α, α′-[4-(3-sulfophenyl)azo]phenyl]imino-di-2,1-ethanediyl]bis[ω-hydroxy]-monosodium salt (CAS Reg. No. N/A) when used as an inert ingredient (colorant) in pesticide formulations applied to seed treatment slurries for raw agricultural commodities and not to exceed 20% (wt/wt).

VII. Statutory and Executive Order Reviews

This action establishes an exemption from the requirement of a tolerance under FFDCA section 408(d) in response to a petition submitted to the Agency. The Office of Management and Budget (OMB) has exempted these types of actions from review under Executive Order 12866, entitled “Regulatory Planning and Review” (58 FR 51735, October 4, 1993). Because this action has been exempted from review under Executive Order 12866, this action is not subject to Executive Order 13211, entitled “Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use” (66 FR 28355, May 22, 2001) or Executive Order 13045, entitled “Protection of Children from Environmental Health Risks and Safety Risks” (62 FR 19885, April 23, 1997). This action does not contain any information collections subject to OMB approval under the Paperwork Reduction Act (PRA) (44 U.S.C. 3501 et seq.), nor does it require any special considerations under Executive Order 12889, entitled “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations” (59 FR 7629, February 16, 1994).

Since tolerances and exemptions that are established on the basis of a petition under FFDCA section 408(d), such as the exemption in this final rule, do not require the issuance of a proposed rule, the requirements of the Regulatory Flexibility Act (RFA) (5 U.S.C. 601 et seq.), do not apply.

This action directly regulates growers, food processors, food handlers, and food retailers, not States or Tribes, nor does this action alter the relationships or distribution of power and responsibilities established by Congress in the preemption provisions of FFDCA section 408(n)(4). As such, the Agency has determined that this action will not have a substantial direct effect on States or tribal governments, on the relationship between the National Government and the States or Tribal Governments, or on the distribution of power and responsibilities among the various levels of government or between the Federal Government and Indian Tribes. Thus, the Agency has determined that Executive Order 13132, entitled “Federalism” (64 FR 43255, August 10, 1999) and Executive Order 13175, entitled “Consultation and Coordination with Indian Tribal Governments” (65 FR 67249, November 9, 2000) do not apply to this action. In addition, this action does not impose any enforceable duty or contain any unfunded mandate as described under Title II of the Unfunded Mandates Reform Act (UMRA) (2 U.S.C. 1501 et seq.).

This action does not involve any technical standards that would require Agency consideration of voluntary consensus standards pursuant to section 12(d) of the National Technology Transfer and Advancement Act (NTTAA) (15 U.S.C. 272 note).

VIII. Congressional Review Act

Pursuant to the Congressional Review Act (5 U.S.C. 801 et seq.), EPA will submit a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

List of Subjects in 40 CFR Part 180

Environmental protection, Administrative practice and procedure, Agricultural commodities, Pesticides and pests, Reporting and recordkeeping requirements.


Marietta Echeverria,
Acting Director, Registration Division, Office of Pesticide Programs.

Therefore, for the reasons stated in the preamble, EPA is amending 40 CFR chapter I as follows:

PART 180—TOLERANCES AND EXEMPTIONS FOR PESTICIDE CHEMICAL RESIDUES IN FOOD

1. The authority citation for part 180 continues to read as follows:


2. In § 180.920, amend the table by adding in alphabetical order the inert ingredient “Poly(oxy-1,2-ethanediyl), α, α′-[4-(3-sulfophenyl)azo]phenyl]imino-di-2,1-ethanediyl]bis[ω-hydroxy]-monosodium salt” to read as follows:

§ 180.920 Inert ingredients used pre-harvest: exemptions from the requirement of a tolerance.

* * * * *
DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Medicare & Medicaid Services

42 CFR Part 412
[CMS–1762–IFC]

Medicare Program; Modification of Limitations on Redesignation by the Medicare Geographic Classification Review Board (MGCRB)

AGENCY: Centers for Medicare & Medicaid Services (CMS), Health and Human Services, (HHS).

ACTION: Interim final rule with comment period.

SUMMARY: This interim final rule with comment period (IFC) amends our current regulations to allow hospitals with a rural redesignation under the Social Security Act (the Act) to reclassify through the Medicare Geographic Classification Review Board (MGCRB) using the rural reclassified area as the geographic area in which the hospital is located. These regulatory changes align our policy with the decision in Bates County Memorial Hospital v. Azar, effective with reclassifications beginning with fiscal year (FY) 2023. We would also apply the policy in this IFC when deciding timely appeals before the Administrator of applications for reclassifications beginning with FY 2022 that were denied by the MGCRB due to the current policy, which does not permit hospitals with rural redesignations to use the rural area’s wage data for purposes of reclassifying under the MGCRB.

DATES:
Effective date: These regulations are effective on May 10, 2021.
Comment date: To be assured consideration, comments must be received at one of the addresses provided below by June 28, 2021.

Inert ingredients Limits Uses

Poly(oxy-1,2-ethanediyl), α, α′-[[[4-[(3-sulfophenyl)azo]phenyl]amino][di-2,1-ethanediyl]bis(o-hydroxy-), monosodium salt. Not to exceed 20% by weight of pesticide formulation. Colorant.

ADDRESSES: In commenting, please refer to file code CMS–1762–IFC. Because of staff and resource limitations, we cannot accept comments by facsimile (FAX) transmission.

Comments, including mass comment submissions, must be submitted in one of the following three ways (please choose only one of the ways listed):
1. Electronically. You may (and we encourage you to) submit electronic comments on this regulation to http://www.regulations.gov. Follow the instructions under the “submit a comment” tab.
2. By regular mail. You may mail written comments to the following address ONLY: Centers for Medicare & Medicaid Services, Department of Health and Human Services, Attention: CMS–1762–IFC, P.O. Box 8013, Baltimore, MD 21244–1850.
   Please allow sufficient time for mailed comments to be received before the close of the comment period.
   By express or overnight mail. You may mail written comments to the following address ONLY: Centers for Medicare & Medicaid Services, Department of Health and Human Services, Attention: CMS–1762–IFC, Mail Stop C4–26–05, 7500 Security Boulevard, Baltimore, MD 21244–1850.
   For information on viewing public comments, we refer readers to the beginning of the SUPPLEMENTARY INFORMATION section.

FOR FURTHER INFORMATION CONTACT:
Tehila Lipschutz, (410) 786–1344 or Dan Schrader, (410) 786–7452.

SUPPLEMENTARY INFORMATION: Inspection of Public Comments: All comments received before the close of the comment period are available for viewing by the public, including any personally identifiable or confidential business information that is included in a comment. We post all comments received before the close of the comment period on the following website as soon as possible after they have been received: http://regulations.gov. Follow the search instructions on that website to view public comments.

We also post comments received timely will be also available for public inspection as they are received, generally beginning approximately 3 weeks after publication of a document, at the headquarters of the Centers for Medicare & Medicaid Services, 7500 Security Boulevard, Baltimore, Maryland 21244, Monday through Friday of each week from 8:30 a.m. to 4 p.m. To schedule an appointment to view public comments, phone 1–800–743–3951.

I. Background
A. Wage Index for Acute Care Hospitals Paid Under the Hospital Inpatient Prospective Payment System (IPPS)

Under section 1886(d) of the Social Security Act (the Act), hospitals are paid based on prospectively set rates. To account for geographic area wage level differences, section 1886(d)(3)(E) of the Act requires that the Secretary of the Department of Health and Human Services (the Secretary) adjust the standardized amounts by a factor (established by the Secretary) reflecting the relative hospital wage level in the geographic area of the hospital, as compared to the national average hospital wage level. We currently define hospital labor market areas based on the delineations of statistical areas established by the Office of Management and Budget (OMB). The current statistical areas (which were implemented beginning with FY 2015) are based on revised OMB delineations issued on February 28, 2013, in OMB Bulletin No. 13–01, with updates as reflected in OMB Bulletins Nos. 15–01, 17–01, and 18–04. We refer readers to the FY 2015 IPPS/LTCH PPS final rule (79 FR 49951 through 49963) for a full discussion of our implementation of the new OMB labor market area delineations beginning with the FY 2015 wage index, and to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58743 through 58755) for a full discussion of the updates to these delineations.

Section 1886(d)(3)(E) of the Act requires the Secretary to update the wage index of hospitals annually, and to base the update on a survey of wages and wage-related costs of short-term, acute care hospitals. Under section 1886(d)(6)(D) of the Act, the Secretary is required to adjust the standardized amounts so as to ensure that aggregate payments under the IPPS, after...
implementation of the provisions of sections 1886(d)(8)(B), 1886(d)(8)(C), and 1886(d)(10) of the Act, regarding geographic reclassification of hospitals, are equal to the aggregate prospective payments that would have been made absent these provisions.

**B. Hospital Reclassifications Under Sections 1886(d)(8)(E) and 1886(d)(10) of the Act**

Hospitals may seek to have their geographic designation reclassified. Under section 1886(d)(6)(E) of the Act, a qualifying prospective payment hospital located in an urban area may apply for rural status. Specifically, section 1886(d)(8)(E) of the Act states that “[f]or purposes of this subsection, not later than 60 days after the receipt of an application (in a form and manner determined by the Secretary) from a subsection (d) hospital described in clause (ii), the Secretary shall treat the hospital as being located in the rural area (as defined in paragraph (2)(D)) of the state in which the hospital is located.” The regulations governing these geographic reclassifications are codified in § 412.103, and such hospitals are commonly referred to as “§ 412.103 hospitals”.

In a separate process, hospitals may also reclassify for purposes of the wage index under the IPPS under section 1886(d)(10) of the Act by applying to the Medicare Geographic Classification Review Board (MGCRB). Hospitals must apply to the MGCRB to reclassify not later than 13 months prior to the start of the fiscal year for which reclassification is sought, generally by September 1. (However, we note that this deadline has been extended for applications for FY 2022 reclassifications to 15 days after the public display date of the FY 2021 IPPS/LTCH final rule at the Office of the Federal Register, using our authority under section 1135(b)(5) of the Act due to the COVID–19 Public Health Emergency.) Generally, hospitals must be proximate to the labor market area to which they are seeking reclassification and must demonstrate characteristics similar to hospitals located in that area. The MGCRB issues its decisions by the time: either under § 412.103 or through the MGCRB under section 1886(d)(10) of the Act. The Court of Appeals in Geisinger ruled that CMS’s prohibition of dual § 412.103 and MGCRB reclassifications was unlawful, since section 1886(d)(8)(E)(i) of the Act requires that “the Secretary shall treat the hospital as being located in the rural area,” inclusive of MGCRB reclassification purposes. Therefore, on April 21, 2016, we published an interim final rule with comment period (the April 21, 2016 IFC) in the Federal Register (81 FR 23428 through 23438) that included provisions amending our regulations to allow hospitals nationwide to have simultaneous § 412.103 and MGCRB reclassifications.

**II. Provisions of the Interim Final Rule With Comment Period**

Pursuant to our April 21, 2016 IFC, for reclassifications effective beginning FY 2018, a hospital may acquire rural status under § 412.103 and subsequently apply for reclassification under the MGCRB using the distance and average hourly wage criteria designated for rural hospitals. Hospitals with a § 412.103 redesignation seeking additional reclassification under the MGCRB use the rural distance and average hourly wage criteria under § 412.230(b)(1), (d)(1)(iii)(C), and (d)(1)(iv)(E). For example, under our current policy, a § 412.103 hospital geographically located in the rural area of the state in which the hospital is located. The regulations governing these geographic reclassifications are codified in § 412.103 hospitals. As a result of the Bates court’s decision, we are revising our policy so that the redesignated rural area, and not the hospital’s geographic urban area, will be considered the area in which the hospital is located. Specifically, to align our policy with the court’s decision in Bates, we are amending the regulations at § 412.230(a)(1) by adding (a)(1)(iii) to state that an urban hospital that has been granted redesignation as rural under § 412.103 is considered to be located in the rural area of the state for the purpose of this prohibition. We are also making conforming changes to the regulation at § 412.230(a)(5)(i) because...
§ 412.230(a)(1) except paragraph (a)(5). Because § 412.230(a)(1) excepts paragraph (a)(5), we believe it is necessary to make a specific conforming revision to § 412.230(a)(5)(i), in addition to the general rule at § 412.230(a)(1)(iii), to clarify that the general rule at § 412.230(a)(1)(iii) applies to § 412.230(a)(5)(i) as well. That is, we are amending the regulation at § 412.230(a)(5)(i) to add language stating that an urban hospital that has been granted redesignation as rural under § 412.103 is considered to be located in the rural area of the state for the purposes of paragraph (a)(5)(i). These changes implement the Bates court’s interpretation of the requirement at section 1886(d)(8)(E)(i) of the Act that “the Secretary shall treat the hospital as being located in the rural area.” That is, a § 412.103 hospital would be considered to be located in the rural area of the state for all purposes of MGCRB reclassification, including the average hourly wage comparisons required by § 412.230(a)(5)(i) and (d)(1)(iii)(C). For example, for purposes of § 412.230(d)(1)(iii)(C), the § 412.103 hospital would compare its average hourly wage to the average hourly wage of all other hospitals in the state’s rural area. In addition, for purposes of § 412.230(a)(5)(i), a § 412.103 hospital may not be redesignated to another area if the pre-classified average hourly wage for that area is lower than the pre-classified average hourly wage for the rural area of the state in which the hospital is located (thus, a § 412.103 hospital could potentially reclassify to any area with a pre-classified average hourly wage that is higher than the pre-classified average hourly wage for the rural area of the state, if it meets all other applicable reclassification criteria).

Therefore, effective for reclassification applications due to the MGCRB on September 1, 2021, for reclassification first effective for FY 2023, a § 412.103 hospital could apply for a reclassification under the MGCRB using the state’s rural area as the area in which the hospital is located. We would also apply the policy in this IFC when deciding timely appeals before the Administrator under § 412.278 for reclassifications beginning in FY 2022 that were denied by the MGCRB due to existing policy, which did not permit § 412.103 hospitals to be considered located in the state’s rural area.

III. Waiver of Proposed Rulemaking and Delay in Effective Date

We ordinarily publish a notice of proposed rulemaking in the Federal Register and invite public comment on the proposed rule before the provisions of the rule are finalized, either as proposed or as amended, in response to public comments and take effect, in accordance with the Administrative Procedure Act (APA) (Pub. L. 79–404), 5 U.S.C. 553 and, where applicable, section 1871 of the Act. Specifically, 5 U.S.C. 553 requires the agency to publish a notice of proposed rulemaking in the Federal Register that includes a reference to the legal authority under which the rule is proposed, and the terms and substances of the proposed rule or a description of the subjects and issues involved. Section 553(c) of the APA further requires the agency to give interested parties the opportunity to participate in the rulemaking through public comment before the provisions of the rule take effect. Similarly, section 1871(b)(1) of the Act requires the Secretary to provide for notice of the proposed rule in the Federal Register and a period of not less than 60 days for public comment for rulemaking carrying out the administration of the insurance programs under Title XVIII of the Act. Section 553(b)(2) of the APA and section 1871(b)(2)(C) of the Act authorize the agency to waive these procedures, however, if the agency finds good cause that notice and comment procedures are impracticable, unnecessary, or contrary to the public interest and incorporates a statement of the finding and its reasons in the rule issued.

Section 553(d) of the APA ordinarily requires a 30-day delay in the effective date of a final rule from the date of its publication in the Federal Register. This 30-day delay in effective date can be waived, however, if an agency finds good cause to support an earlier effective date. Section 1871(o)(1)(B)(i) of the Act also prohibits a substantive rule from taking effect before the end of the 30-day period beginning on the date the rule is issued or published. However, section 1871(o)(1)(B)(ii) of the Act permits a substantive rule to take effect before 30 days if the Secretary finds that a waiver of the 30-day period is necessary to comply with statutory requirements or that the 30-day delay would be contrary to the public interest.

Finally, the Congressional Review Act (CRA) (Pub. L. 104–121. Title II) requires a 60-day delay in the effective date for major rules unless an agency finds good cause that notice and public procedure are impracticable, unnecessary, or contrary to the public interest, in which case the rule shall take effect at that time as the agency determines 5 U.S.C. 301(a)(3) and 808(2).

We find good cause for waiving notice-and-comment rulemaking and a delay in effective date given the decision of the district court and the public interest in expeditious implementation of the court’s interpretation of the statute. Revising the regulation text by adding § 412.230(a)(1)(iii) and revising the regulation at § 412.230(a)(5)(i) through an IFC rather than through the normal notice-and-comment rulemaking cycle and waiving the delay of effective date will ensure an expeditious implementation of the court’s interpretation by allowing this policy to be applied to FY 2023 MGCRB reclassification decisions and cases before the Administrator for reclassifications effective beginning FY 2022. Absent this IFC, the earliest effective date of this revision to the regulations would be October 1, 2021 (FY 2022) following the normal IPPS/LTCH PPS notice-and-comment rulemaking cycle. An effective date of FY 2022 would only allow the MGCRB to approve hospitals’ applications qualifying under this policy for applications due September 1, 2022 for reclassifications effective beginning FY 2024 (applications are due to the MGCRB 13 months prior to the start of the fiscal year). Additionally, implementing the court’s interpretation via an IFC allows this policy to be applied to cases before the Administrator for reclassifications effective beginning in FY 2022, which supports an expeditious implementation of this policy. Therefore, we find good cause to waive the notice of proposed rulemaking as well as the delay of effective date and to issue this final rule on an interim basis. Even though we are waiving notice of proposed rulemaking requirements and are issuing these provisions on an interim basis, we are providing a 60-day public comment period.

IV. Collection of Information Requirements

This document does not impose information collection requirements, that is, reporting, recordkeeping or third-party disclosure requirements. Consequently, there is no need for review by the Office of Management and Budget under the authority of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.).

V. Regulatory Impact Statement

We have examined the impact of this rule as required by Executive Order 12866 on Regulatory Planning and Review (September 30, 1993), Executive Order 13563 on Improving Regulation

Executive Orders 12866 and 13563 direct agencies to assess all costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits (including potential economic, environmental, public health and safety effects, distributive impacts, and equity). A Regulatory Impact Analysis (RIA) must be prepared for major rules with economically significant effects ($100 million or more in any 1 year). This rule does not reach the economic threshold and thus is not considered a major rule.

The RFA requires agencies to analyze options for regulatory relief of small entities. For purposes of the RFA, small entities include small businesses, nonprofit organizations, and small governmental jurisdictions. Most hospitals and most other providers and suppliers are small entities, either by nonprofit status or by having revenues of less than $8.0 million to $41.5 million in any 1 year. Individuals and states are not included in the definition of a small entity. We are not preparing an analysis for the RFA because we have determined, and the Secretary certifies, that this IFC would not have a significant economic impact on a substantial number of small entities. Also, our revision to the regulatory text is a consequence of a court decision. We are amending the regulations to align our policy with the court’s decision in Bates and implement the Bates court’s interpretation of the requirement at section 1886(d)(8)(E)(i) of the Act that “the Secretary shall treat the hospital as being located in the rural area.” In addition, section 1102(b) of the Act requires us to prepare an RIA if a rule may have a significant impact on the operations of a substantial number of small rural hospitals. This analysis must conform to the provisions of section 604 of the RFA. For purposes of section 1102(b) of the Act, we define a small rural hospital for Medicare payment regulations as a hospital that is located outside of a Metropolitan Statistical Area and has fewer than 100 beds. We are not preparing an analysis for section 1102(b) of the Act because we have determined, and the Secretary certifies, that this IFC would not have a significant impact on the operations of a substantial number of small rural hospitals.

Section 202 of the Unfunded Mandates Reform Act of 1995 also requires that agencies assess anticipated costs and benefits before issuing any rule whose mandates require spending in any 1 year of $100 million in 1995 dollars, updated annually for inflation. In 2021, that threshold is approximately $158 million. This rule will have no consequential effect on state, local, or tribal governments or on the private sector.

Executive Order 13132 establishes certain requirements that an agency must meet when it promulgates a proposed rule (and subsequent final rule) that imposes substantial direct requirement costs on state and local governments, preempts state law, or otherwise has Federalism implications. Since this regulation does not impose any costs on state or local governments, the requirements of Executive Order 13132 are not applicable.

Executive Orders 12866 and 13563 direct agencies to assess all costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits (including potential economic, environmental, public health and safety effects, distributive impacts, and equity). Section 3(f) of Executive Order 12866 defines a “significant regulatory action” as an action that is likely to result in a rule: (1) Having an annual effect on the economy of $100 million or more in any 1 year, or adversely and materially affecting a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or state, local or tribal governments or communities (also referred to as “economically significant”); (2) creating a serious inconsistency or otherwise interfering with an action taken or planned by another agency; (3) materially altering the budgetary impacts of entitlement grants, user fees, or loan programs or the rights and obligations of recipients thereof; or (4) raising novel legal or policy issues arising out of legal mandates, the President’s priorities, or the principles set forth in the Executive Order.

We estimate that this rule is “significant” but not “economically significant,” as measured by the $100 million threshold. However, we have prepared an impact analysis that presents our best estimate of the costs and benefits of this rule for FY 2022 since section 3(f) of Executive Order 12866 defines a “significant regulatory action” as a rule that raises novel legal or policy issues arising out of legal mandates.

With regard to our impact analysis, as a result of this IFC, for FY 2022, there are approximately 22 hospitals that may qualify for a reclassification to a new or different urban area with a higher wage index than they might otherwise have received based on the information currently available to us (for example, applications submitted to the MGCRB.) For FY 2022, if these hospitals qualify for and accept reclassification to a new or different urban area with a higher wage index than they might otherwise have received, we estimate a total increase in payments to these hospitals of approximately $50 million in aggregate. However, wage index adjustments such as these are made in a manner that ensures that aggregate payments to hospitals are unaffected.

This is accomplished through the application of a wage index budget neutrality adjustment as described more fully in the FY 2022 IPPS/LTC proposed rule. Therefore, as a consequence of the court’s decision in Bates, even though an urban hospital may be able to qualify for a reclassification to a new or different urban area with a higher wage index, this would not increase aggregate hospital payments. We estimate that in FY 2022 the wage index budget neutrality adjustment could increase by one-half of a percentage point as a result of an increase in the wage index to these 22 hospitals.

We do not know as a result of this IFC: (1) How many additional hospitals will elect to apply to the MGCRB by September 1, 2021 for reclassification beginning FY 2023 that would not otherwise have applied; (2) how many hospitals that apply will qualify for a wage index higher than they otherwise would have received; (3) for those that qualify for a higher wage index how much higher that wage index will be; and, (4) how many hospitals may elect to retain or acquire § 412.103 urban-to-rural reclassification that would not otherwise have done so. The MGCRB makes determinations on reclassification requests, and hospitals make final decisions whether to accept reclassifications approved by the MGCRB.

We also note that OMB requested public comment on the recommendations it received from the Metropolitan and Micropolitan Statistical Area Standards Review Committee for changes to OMB’s metropolitan and micropolitan statistical area standards (86 FR 5263). These standards determine the
procedures for delineating and updating the statistical areas as new data become available. If changes to the standards are adopted by OMB and if those changes would affect the OMB delineations used for the IPPS wage index, we would address any such changes and impacts in future rulemaking.

In accordance with the provisions of Executive Order 12866, this IFC was reviewed by the Office of Management and Budget.

VI. Response to Comments

Because of the large number of public comments we normally receive on Federal Register documents, we are not able to acknowledge or respond to them individually. We will consider all comments we receive by the date and time specified in the DATES section of this preamble, and, when we proceed with a subsequent document, we will respond to the comments in the preamble to that document.

I. Elizabeth Richter, Acting Administrator of the Centers for Medicare & Medicaid Services, approved this document on April 16, 2021.

List of Subjects in 42 CFR Part 412

Administrative practice and procedure, Health facilities, Medicare, Puerto Rico, Reporting and recordkeeping requirements.

For the reasons set forth in the preamble, the Centers for Medicare & Medicaid Services amends 42 CFR chapter IV, part 412, as follows:

PART 412—PROSPECTIVE PAYMENT SYSTEMS FOR INPATIENT HOSPITAL SERVICES

1. The authority for part 412 continues to read as follows:

Authority: 42 U.S.C. 1302 and 1395hh.

2. Section 412.230 is amended by adding paragraph (a)(1)(iii) and revising paragraph (a)(5)(i) to read as follows:

§412.230 Criteria for an individual hospital seeking redesignation to another rural area or an urban area.

(a) * * * *(1) * * *

(iii) An urban hospital that has been granted redesignation as rural under §412.103 is considered to be located in the rural area of the state for the purposes of this paragraph (a)(5)(i).

* * * * *


Xavier Becerra,
Secretary, Department of Health and Human Services.

[FR Doc. 2021–08889 Filed 4–27–21; 4:45 pm]
BILLING CODE 4120–01–P

DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

44 CFR Part 64


Suspension of Community Eligibility

AGENCY: Federal Emergency Management Agency, DHS.

ACTION: Final rule.

SUMMARY: This rule identifies communities where the sale of flood insurance has been authorized under the National Flood Insurance Program (NFIP) that are scheduled for suspension on the effective dates listed within this rule because of noncompliance with the floodplain management requirements of the program. If the Federal Emergency Management Agency (FEMA) receives documentation that the community has adopted the required floodplain management measures prior to the effective suspension date given in this rule, the suspension will not occur. Information identifying the current participation status of a community can be obtained from FEMA’s CSB available at www.fema.gov/flood-insurance/work-with-nfip/community-status-book. Please note that per Revisions to Publication Requirements for Community Eligibility Status Information Under the National Flood Insurance Program, notices such as this will not be suspended and will continue to be eligible for the sale of NFIP flood insurance. Their current NFIP participation status can be verified at any time on the CSB section at www.fema.gov.

In addition, FEMA publishes a Flood Insurance Rate Map (FIRM) that identifies the Special Flood Hazard Areas (SFHAs) in these communities. The date of the published FIRM is indicated in the fourth column of the table. No direct federal financial assistance (except assistance pursuant to the Robert T. Stafford Disaster Relief and Emergency Assistance Act not in connection with a flood) may be provided for construction or acquisition of buildings in identified SFHAs for
communities not participating in the NFIP and identified for more than a year on FEMA’s initial FIRMs for the community as having flood-prone areas (section 262(a) of the Flood Disaster Protection Act of 1973, 42 U.S.C. 4106(a), as amended). This prohibition against certain types of federal assistance becomes effective for the communities listed on the date shown in the last column. The Administrator finds that notice and public comment procedures under 5 U.S.C. 553(b), are impracticable and unnecessary because communities listed in this final rule have been adequately notified.

Each community receives 6-month, 90-day, and 30-day notification letters addressed to the Chief Executive Officer stating that the community will be suspended unless the required floodplain management measures are met prior to the effective suspension date. Since these notifications were made, this final rule may take effect within less than 30 days.

National Environmental Policy Act.

FEMA has determined that the community suspension(s) included in this rule is a non-discretionary action and therefore the National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq.) does not apply. Regultory Flexibility Act. The Administrator has determined that this rule is exempt from the requirements of the Regulatory Flexibility Act because the National Flood Insurance Act of 1968, as amended, Section 1315, 42 U.S.C. 4022, prohibits flood insurance coverage unless an appropriate public body adopts adequate floodplain management measures with effective enforcement measures. The communities listed no longer comply with the statutory requirements, and after the effective date, flood insurance will no longer be available in the communities unless remedial action takes place.

Regulatory Classification. This final rule is not a significant regulatory action under the criteria of section 3(f) of Executive Order 12866 of September 30, 1993, Regulatory Planning and Review, 58 FR 51735.

Executive Order 13132, Federalism. This rule involves no policies that have federalism implications under Executive Order 13132.

Executive Order 12988, Civil Justice Reform. This rule meets the applicable standards of Executive Order 12988.

Paperwork Reduction Act. This rule does not involve any collection of information for purposes of the Paperwork Reduction Act, 44 U.S.C. 3501 et seq.

List of Subjects in 44 CFR Part 64
Flood insurance, Floodplains.

Accordingly, 44 CFR part 64 is amended as follows:

PART 64—[AMENDED]

1. The authority citation for Part 64 continues to read as follows:


§ 64.6 [Amended]

2. The tables published under the authority of § 64.6 are amended as follows:

<table>
<thead>
<tr>
<th>State and location</th>
<th>Community No.</th>
<th>Effective date authorization/cancellation of sale of flood insurance in community</th>
<th>Current effective map date</th>
<th>Date certain federal assistance no longer available in SFHAs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Region 3</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pennsylvania:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barry, Township of, Schuylkill County</td>
<td>421997</td>
<td>August 5, 1975, Emerg; May 1, 1986, Reg; May 18, 2021, Susp.</td>
<td>May 18, 2021</td>
<td>May 18, 2021</td>
</tr>
<tr>
<td>Eldred, Township of, Schuylkill County</td>
<td>422005</td>
<td>August 5, 1975, Emerg; September 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foster, Township of, Schuylkill County</td>
<td>422006</td>
<td>April 21, 1975, Emerg; September 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frackville, Borough of, Schuylkill County</td>
<td>420771</td>
<td>July 9, 1975, Emerg; May 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Girardville, Borough of, Schuylkill County</td>
<td>420772</td>
<td>April 29, 1975, Emerg; February 2, 1990, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mahanoy, Township of, Schuylkill County</td>
<td>420111</td>
<td>August 20, 1975, Emerg; September 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middleport, Borough of, Schuylkill County</td>
<td>420777</td>
<td>September 27, 1974, Emerg; September 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minersville, Borough of, Schuylkill County</td>
<td>420778</td>
<td>April 4, 1974, Emerg; March 2, 1989, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Castle, Township of, Schuylkill County</td>
<td>422012</td>
<td>December 3, 1979, Emerg; August 13, 1982, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Union, Township of, Schuylkill County</td>
<td>422014</td>
<td>July 11, 1975, Emerg; September 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norwegian, Township of, Schuylkill County</td>
<td>422015</td>
<td>April 21, 1975, Emerg; July 9, 1982, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reilly, Township of, Schuylkill County</td>
<td>422017</td>
<td>April 7, 1975, Emerg; May 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schuylkill, Township of, Schuylkill County</td>
<td>422020</td>
<td>May 27, 1975, Emerg; March 11, 1983, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shenandoah, Borough of, Schuylkill County</td>
<td>420788</td>
<td>May 16, 1973, Emerg; May 1, 1986, Reg; May 18, 2021, Susp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tower City, Borough of, Schuylkill County</td>
<td>420790</td>
<td>April 29, 1975, Emerg; September 1, 1986, Reg; May 18, 2021, Susp.</td>
<td>May 18, 2021</td>
<td>May 18, 2021</td>
</tr>
</tbody>
</table>
FEDERAL COMMUNICATIONS COMMISSION

47 CFR Part 73

[MB Docket No. 21–57; RM–11882; DA 21–480; FR ID 24753]

Television Broadcasting Services
Savannah, Georgia

AGENCY: Federal Communications Commission.

ACTION: Final rule.

SUMMARY: On February 22, 2021, the Media Bureau, Video Division (Bureau) issued a Notice of Proposed Rulemaking in response to a petition for rulemaking filed by Gray Television Licensee, LLC (Gray), the licensee of WTOC-TV, channel 11 (CBS), Savannah, Georgia, requesting the substitution of channel 23 for channel 11 at Savannah in the DTV Table of Allotments. For the reasons set forth in the Report and Order referenced below, the Bureau amends FCC regulations to substitute channel 23 for channel 11 at Savannah.


FOR FURTHER INFORMATION CONTACT: Andrew Manley, Media Bureau, at (202) 418–0596 or Andrew.Manley@fcc.gov.

SUPPLEMENTARY INFORMATION: The proposed rule was published at 86 FR 12898 on March 5, 2021. Gray filed comments in support of the petition reaffirming its commitment to applying for channel 23. No other comments were received. In support, Gray states that the Commission has recognized that VHF channels have certain propagation...
characteristics which may cause reception issues for some viewers, and that many of its viewers experience significant difficulty receiving WTOC’s signal. Gray also demonstrated that all of the terrain-limited service area of WTOC’s licensed channel 11 will receive terrain-limited service from the proposed channel 23, and that operation on channel 23 will not result in any predicted loss of service. The Bureau believes the public interest would be served by the channel substitution because it will result in improved service.

This is a synopsis of the Commission’s Report and Order, MB Docket No. 21–61; RM–11885; DA 21–477, adopted April 26, 2021, and released April 26, 2021. The full text of this document is available for download at https://www.fcc.gov/edocs. To request materials in accessible formats for people with disabilities (braille, large print, electronic files, audio format), send an email to fcc504@fcc.gov or call the Consumer & Governmental Affairs Bureau at 202–418–0530 (voice), 202–418–0432 (tty).


The Commission will send a copy of this Report and Order in a report to be sent to Congress and the Government Accountability Office pursuant to the Congressional Review Act, see 5 U.S.C. 801(a)(1)(A).

List of Subjects in 47 CFR Part 73
Television.
Federal Communications Commission.
Thomas Horan, Chief of Staff, Media Bureau.

Final Rule
For the reasons discussed in the preamble, the Federal Communications Commission amends 47 CFR part 73 as follows:

PART 73—RADIO BROADCAST SERVICE

1. The authority citation for part 73 continues to read as follows:

2. In §73.622(i), amend the Post-Transition Table of DTV Allotments, under Georgia, by revising the entry for Savannah to read as follows:

§73.622 Digital television table of allotments.

<table>
<thead>
<tr>
<th>Community</th>
<th>Channel No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Savannah</td>
<td>* 9, 22, 23, 39</td>
</tr>
</tbody>
</table>

[FR Doc. 2021–09693 Filed 5–7–21; 8:45 am]

BILLING CODE 6712–01–P

DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

50 CFR Part 622
[Docket No. 210504–0099]
RIN 0648–BK22
Fisheries of the Caribbean, Gulf of Mexico, and South Atlantic; Dolphin and Wahoo Fishery of the Atlantic; Amendment 12

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Final rule.

SUMMARY: NMFS issues regulations to implement Amendment 12 to the Fishery Management Plan (FMP) for the Dolphin and Wahoo Fishery of the Atlantic (Dolphin Wahoo FMP), as prepared and submitted by the South Atlantic Fishery Management Council (Council). This final rule adds bullet mackerel and frigate mackerel to the Dolphin Wahoo FMP and designates them as ecosystem component (EC) species. The purpose of this final rule and Amendment 12 is to acknowledge the ecological role of bullet mackerel and frigate mackerel as forage fish and to achieve the ecosystem management objectives in the Dolphin Wahoo FMP.

DATES: This final rule is effective June 9, 2021.

ADDRESSES: Electronic copies of Amendment 12, which includes a fishery impact statement and a regulatory impact review, may be obtained from the Southeast Regional Office website at https://www.fisheries.noaa.gov/action/amendment-12-add-bullet-mackerel-and-frigate-mackerel-ecosystem-component-species.

FOR FURTHER INFORMATION CONTACT: Nikhil Mehta, telephone: 727–824–5305, or email: nikhil.mehta@noaa.gov.

SUPPLEMENTARY INFORMATION: The dolphin and wahoo fishery of the Atlantic is managed under the FMP. The FMP was prepared by the Council and implemented through regulations at 50 CFR part 622 under the authority of the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act).

On January 29, 2021, NMFS published a notice of availability for Amendment 12 and requested public comment (86 FR 7524). NMFS approved Amendment 12 on April 26, 2021. On March 2, 2021, NMFS published a proposed rule for Amendment 12 and requested public comment (86 FR 12166). The proposed rule and Amendment 12 outline the rationale for the actions contained in this final rule. A summary of the management measures described in Amendment 12 and implemented by this final rule is described below.

Background
The Council manages dolphin and wahoo under the Dolphin Wahoo FMP in Federal waters off the Atlantic states from Maine south to the Florida Keys in the Atlantic. In the western North Atlantic, bullet mackerel are found from Cape Cod to the Gulf of Mexico, and frigate mackerel are found mostly from North Carolina to Florida. As described in Amendment 12, both bullet mackerel and frigate mackerel are found in the diets of dolphin and wahoo in the North Atlantic. In particular, wahoo has been demonstrated to have a strong dietary reliance on bullet mackerel and frigate mackerel, indicating that these mackerel species are the most dominant forage species observed in the diets of wahoo. Dolphin tend to have more diverse diets than wahoo and have a lower reliance on these mackerel species as prey. Additionally, bullet mackerel and frigate mackerel have been identified as important forage species for other offshore pelagic predatory species in the Atlantic such as blue marlin and yellowfin tuna. Bullet mackerel feed on a variety of prey, especially clupeoids (i.e., herrings and sardines), crustaceans, and squids. Frigate mackerel feed on a variety of fish, squid, and small crustaceans. Therefore, given their presence as a common forage fish and
prey food source, bullet mackerel and frigate mackerel are an important component of the marine environment in the Atlantic. There is no stock assessment for dolphin, wahoo, bullet mackerel, or frigate mackerel. In Atlantic Federal waters, dolphin and wahoo are targeted both commercially and recreationally. Annual reported commercial and recreational landings of bullet mackerel and frigate mackerel are low along the entire Atlantic coastline. Regulations implemented under the Magnuson-Stevens Act define EC species as “stocks that a Council or the Secretary has determined do not require conservation and management, but desire to list in a FMP in order to achieve ecosystem management objectives” (50 CFR 600.305(d)(13)). National Standards (NS) General guidelines state that a Council should consider a non-exhaustive list of 10 factors when deciding whether additional stocks require Federal conservation and management (50 CFR 600.305(c)(1)). The EC designation for bullet mackerel and frigate mackerel was recommended to the Council by the Council’s Scientific and Statistical Committee (SSC), their Dolphin Wahoo Advisory Panel (AP), and the Habitat Protection and Ecosystem-Based Management (Habitat) AP, and received extensive positive comments from the public during scoping of Amendment 12. The Dolphin Wahoo AP and Habitat AP members acknowledged that wahoo, in particular, target these mackerel species as prey. The AP members also stated that the Council should consider a conservative approach to ensure there are no major increases in the harvest of bullet mackerel and frigate mackerel in the foreseeable future as a result of any EC designation. This designation addresses the Council’s growing emphasis on developing ecosystem management approaches to fisheries management and advancing ecosystem management objectives in the Dolphin Wahoo FMP.

The extent to which the low landings of bullet mackerel and frigate mackerel occur within the dolphin and wahoo fishery is unknown; however, it is unlikely that these species are often harvested in conjunction with efforts to target dolphin and wahoo, especially in the commercial sector. Bullet and frigate mackerel have largely been landed commercially in the Mid-Atlantic Region using gill net, pound net, float trap, and otter trawl gear, none of which are allowable gear types in the dolphin and wahoo fishery. Recreational landings of bullet and frigate mackerel have largely occurred in the South Atlantic Region, with some limited catches reported from the Mid-Atlantic Region. Furthermore, recreational fishermen have also noted that these species are used as bait for tuna and billfish, such as blue marlin. NMFS and the Council have determined that bullet mackerel and frigate mackerel are currently not in need of conservation and management, making them eligible for consideration as EC species. This eligibility determination was done after consideration of the provisions within the NS Guidelines and requirements of the Magnuson-Stevens Act. Furthermore, adding bullet mackerel and frigate mackerel to the Dolphin Wahoo FMP as EC species meets the FMP’s ecosystem management objectives (50 CFR 600.305(c)(5) and 600.310(d)(1)).

### Management Measures Contained in This Final Rule

This final rule adds bullet mackerel and frigate mackerel to the Dolphin Wahoo FMP and designates them as EC species. This final rule adds no additional management measures to the Dolphin Wahoo FMP as a result of this EC species designation, either for bullet mackerel and frigate mackerel, or for dolphin and wahoo. The final rule is expected to result in potential indirect benefits such as increased awareness among the fishermen, fishing communities, data collecting agencies, and regulatory entities managing dolphin, wahoo, bullet mackerel, and frigate mackerel. If landings for these two mackerel species were to greatly increase in the future to unsustainable levels, fisheries managers could be made aware of the changing stock status before the stocks are depleted, which may have subsequent beneficial effects on populations of several economically important predatory fish species, including dolphin, wahoo, blue marlin, and yellowfin tuna.

### Comments and Responses

NMFS received 24 comments during the public comment period on the notice of availability and proposed rule for Amendment 12. Comment submissions were from the general public, sport-fishing associations, and non-governmental organizations. The majority of the comments were in support of adding bullet mackerel and frigate mackerel to the Dolphin Wahoo FMP as EC species. NMFS acknowledges the comments in favor of the action in the notice of availability and proposed rule and agrees with them. One comment was outside the scope of the proposed rule and is not responded to in this final rule. Comments in opposition and that requested additional information about the action contained in the notice of availability and proposed rule are summarized below, along with NMFS’ responses.

**Comment 1:** NMFS and the Council should consider more proactive methods of monitoring the conditions of bullet and frigate mackerel and collect more data to study abundance and population trends.

**Response:** NMFS agrees that more data would aid in obtaining a better understanding of abundance and population trends for bullet mackerel and frigate mackerel. However, these species are not directly targeted by commercial and recreational fishers in the Atlantic. Commercial landings of bullet mackerel and frigate mackerel have been variable, but typically are relatively low, averaging 4,395 lb (1,994 kg), round weight, annually over the past 20 years of available data (1999 through 2018), 1,569 lb, (712 kg), round weight, annually over the past 10 years (2009 through 2018), and 1,939 lb (880 kg), round weight, over the past 5 years (2014 through 2018). Recreational landings have been variable and sporadic, averaging 1,189 lb (539 kg), round weight, for bullet mackerel, and 3,569 lb (1,619 kg), round weight, for frigate mackerel annually over the past 20 years of available data (1999 through 2018).

In terms of data collection, vessels with Federal commercial dolphin wahoo permits already report all landings that are sold to a federally permitted dealer, including species that are not subject to Federal management (85 FR 47917; August 7, 2020). The Marine Recreational Information Program captures information on all species caught by recreational fishers. Furthermore, North Carolina has introduced fish identification codes in its state trip ticket forms for these mackerel species since 2018. Public education and awareness of the EC designation may encourage fishers to report landings of these two mackerel species more than before, thereby providing more data. If landings for bullet mackerel and frigate mackerel were to increase in the future, NMFS is preparing and active measures within the Council’s jurisdiction could be explored in a future amendment.
Comment 2: The proposed rule does not achieve the stated purpose of Amendment 12 to provide awareness regarding bullet mackerel and frigate mackerel, and is a waste of taxpayer dollars. If there are no benefits for the dolphin and wahoo fishery from this action, then it would make sense that there should be no cost, or at least minimal cost, for this proposed rule. However, NMFS calculates an estimated cost of $34,499.00 for an action that will have no benefits.

Response: NMFS disagrees that there are no benefits to the action. The purpose of Amendment 12 and its rulemaking is to acknowledge the ecological role of bullet mackerel and frigate mackerel as forage fish by adding them to the Dolphin Wahoo FMP as EC species. Peer-reviewed scientific studies have found scombrids such as bullet mackerel and frigate mackerel are the dominant prey (43.7 percent frequency of occurrence and 41.7 percent by mass) in wahoo diets, showing that a wahoo have a high reliance on scombrids and suggesting that wahoo specialize on this prey group, just as they do in other regions throughout their range. Bullet and frigate mackerel are also important in the diets of dolphin, blue marlin, and yellowfin tuna. The action in Amendment 12 brings awareness among the fishers, fishing communities, data collecting agencies, and regulatory entities managing dolphin, wahoo, bullet mackerel, and frigate mackerel.

As noted in the response to Comment 1, there is very little interest among fishers in these two mackerel species at present, but, if they were to be targeted in the future, adding them in the FMP as EC species will aid in considering other measures in a future action, if warranted. Indeed, the Mid-Atlantic Fishery Management Council has discussed plans to establish possession limits for bullet mackerel and frigate mackerel. In the western Atlantic, bullet mackerel are found from Cape Cod to the Gulf of Mexico and feed on a variety of prey, especially chupeoids (i.e., herrings and sardines), crustaceans, and squids. Frigate mackerel are mostly found from North Carolina to Florida and feed on a variety of fish, squids, and small crustaceans. By acknowledging the role of bullet mackerel and frigate mackerel in the ecosystem as forage fish, implementation of Amendment 12 will increase ecosystem-wide awareness.

NMFS and the Council determined that bullet mackerel and frigate mackerel are currently not in need of conservation and management, and, as such, are eligible for consideration as EC species under provisions found within the NS Guidelines (50 CFR 600.305(c)(1)), in compliance with the requirements of the Magnuson-Stevens Act and other applicable laws.

There are no expected notable effects for the dolphin and wahoo fishery from this action, because bullet mackerel and frigate mackerel are not targeted in this fishery, and are not caught by the gear authorized in the dolphin and wahoo fishery. Landings for these species have been very low over the last 20 years (see response to Comment 1). Bullet mackerel and frigate mackerel have largely been landed commercially in the Mid-Atlantic region using gill net, pound net, float trap, and otter trawl gear, none of which are allowable gear types in the dolphin and wahoo fishery. Recreational catches of bullet mackerel and frigate mackerel have largely occurred in the South Atlantic Region, with some limited catches reported from the Mid-Atlantic Region. Also, recreational fishers have noted that these species are used as bait.

NMFS conducted an economic analysis for Amendment 12 to comply with Executive Order (E.O.) 12866. The analysis estimated costs resulting from this action in the amount of $34,499.00 (2018 dollars), which are considered minimal. This estimate represents the administrative costs to the Council and NMFS associated with Amendment 12 and this rulemaking as there are no direct costs to the private sector.

In addition, while this final rule is not expected to result in any direct benefits, it is expected to result in indirect benefits. Consistent with Circular A–4 from the Office of Management and Budget, which provides guidance on how to conduct analyses to comply with E.O. 12866, the analysis should consider favorable effects from the rule that are typically unrelated or secondary to the purpose of the rulemaking. If it is not feasible to monetize or quantify such effects, they should at least be considered qualitatively. As discussed in Amendment 12, indirect economic benefits are expected to arise from designating bullet and frigate mackerel as EC species by enhancing public education and awareness of these species, which in turn is expected to improve data reporting and monitoring of landings. If landings for the two mackerel species greatly increase in the future to unsustainable levels, fisheries managers could be made aware before the stocks are depleted. The ability to preclude such stock depletions is expected to indirectly benefit fisheries for several economically important predator species in the future, including dolphin and wahoo. These indirect benefits were determined to outweigh the minimal administrative costs that have already been largely incurred by the Council and NMFS, and therefore this regulatory action is expected to increase net benefits to the Nation.

Comment 3: Lower landing rates for both bullet mackerel and frigate mackerel are not just because of less interest in fishing for these species. Rather, the population of these species has decreased drastically.

Response: NMFS disagrees. There is no stock assessment available for bullet mackerel or frigate mackerel. Therefore, it is not possible to determine if the populations have decreased or increased in a manner that would negatively or positively affect their stock status. As mentioned in responses to Comments 1 and 2, these species are typically caught incidentally to other species and are not the targets of a directed fishery, which is consistent with the low levels of landings. Adding bullet mackerel and frigate mackerel to the Dolphin Wahoo FMP does meet ecosystem management objectives (50 CFR 600.305(d)(13)). The EC designation recognizes the ecosystem role of these mackerel species as prey for many economically important species such as wahoo and other billfish. Increased awareness of the importance of these species could aid in more data reporting and collection, which would help towards any possible future stock assessment, if necessary.

Classification

Pursuant to section 304(b)(3) of the Magnuson-Stevens Act, the NMFS Assistant Administrator has determined that this final rule is consistent with Amendment 12, the Dolphin Wahoo FMP, other provisions of the Magnuson-Stevens Act, and other applicable laws. This final rule has been determined to be not significant for purposes of Executive Order 12866.

The Magnuson-Stevens Act provides the legal basis for this final rule. No duplicative, overlapping, or conflicting Federal rules have been identified. In addition, no new reporting and record-keeping requirements are introduced by this final rule. This final rule contains no information collection requirements under the Paperwork Reduction Act of 1995. A description of this final rule, why it is being considered, and the purposes of this final rule are contained in the preamble and in the SUMMARY section of this final rule. The objective of this final rule is to acknowledge the ecological role of bullet mackerel and frigate mackerel as forage fish in general and specifically as prey for wahoo.
The Chief Counsel for Regulation of the Department of Commerce certified to the Chief Counsel for Advocacy of the Small Business Administration (SBA) during the proposed rule stage that this rule would not have a significant economic impact on a substantial number of small entities. The factual basis for the certification was published in the proposed rule and is not repeated here. NMFS did not receive any comments from SBA’s Office of Advocacy or the public regarding the certification in the proposed rule. NMFS received one public comment on the economic analysis in Amendment 12; see Comment #2 in the preamble. No changes to this final rule were made in response to public comments. As a result, a final regulatory flexibility analysis was not required and none was prepared.

List of Subjects in 50 CFR Part 622

Atlantic, Dolphin, Ecosystem species, Fisheries, Fishing, Wahoo.


Samuel D. Rauch, III,
Deputy Assistant Administrator for Regulatory Programs, National Marine Fisheries Service.

For the reasons set out in the preamble, 50 CFR part 622 is amended as follows:

PART 622—FISHERIES OF THE CARIBBEAN, GULF OF MEXICO, AND SOUTH ATLANTIC

1. The authority citation for part 622 continues to read as follows:

Authority: 16 U.S.C. 1801 et seq.

2. Add Table 6 to appendix A to part 622 to read as follows:

Appendix A to Part 622—Species Tables

* * * * *

Table 6 of Appendix A to Part 622—Atlantic Dolphin and Wahoo

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolphin</td>
<td>Coryphaena equiselis or Coryphaena hippurus Wahoo, Acanthocybium solandri</td>
</tr>
</tbody>
</table>

The following species are designated as ecosystem component species:

- Bullet mackerel, Auxis rochei
- Frigate mackerel, Auxis thazard

[FR Doc. 2021-09851 Filed 5–7–21; 8:45 am]

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

50 CFR Part 648

[Federal Register: 50 CFR Part 648; Docket No. 200325–0088; RTID 0648–X8071]

Fisheries of the Northeastern United States; Atlantic Sea Scallop Fishery; 2021 Closure of the Northern Gulf of Maine Scallop Management Area to the Limited Access General Category Fishery

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Temporary rule; closure.

SUMMARY: NMFS announces the closure of the Northern Gulf of Maine Scallop Management Area for the remainder of the 2021 fishing year for Limited Access General Category vessels. Regulations require this action once NMFS projects that 100 percent of the Limited Access General Category total allowable catch for the Northern Gulf of Maine Scallop Management Area will be harvested. This action is intended to prevent the overharvest of the 2021 total allowable catch allocated to the Limited Access General Category Fishery.

DATES: Effective 0001 hr local time, May 6, 2021, through March 31, 2022.

FOR FURTHER INFORMATION CONTACT: Louis Forristall, Fishery Management Specialist, (978) 281–9321.

SUPPLEMENTARY INFORMATION: The regulations governing fishing activity in the Northern Gulf of Maine (NGOM) Scallop Management Area are located in 50 CFR 648.54 and 648.62. These regulations authorize vessels issued a valid Federal scallop permit to fish in the NGOM Scallop Management Area under specific conditions, including a default total allowable catch (TAC) of 167,500 lb (75,976 kg) for the Limited Access General Category (LAGC) fleet for the 2021 fishing year, and a State Waters Exemption Program for the State of Maine and Commonwealth of Massachusetts. Section 648.62(b)(2) requires the NGOM Scallop Management Area to be closed to scallop vessels issued Federal LAGC scallop permits, except as provided below, for the remainder of the fishing year once the NMFS Greater Atlantic Regional Administrator determines that 100 percent of the LAGC TAC for the fishing year is projected to be harvested. Any vessel that holds a Federal NGOM (LAGC B) or Individual Fishing Quota (IFQ) (LAGC A) permit may continue to fish in the Maine or Massachusetts state waters portion of the NGOM Scallop Management Area under the State Waters Exemption Program found in § 648.54 provided it has a valid Maine or Massachusetts state scallop permit and fishes only in that state’s respective waters.

Based on trip declarations by federally permitted LAGC scallop vessels fishing in the NGOM Scallop Management Area and analysis of fishing effort, we project that the 2021 LAGC TAC will be harvested as of May 6, 2021. Therefore, in accordance with § 648.62(b)(2), the NGOM Scallop Management Area is closed to all federally permitted LAGC scallop vessels as of May 6, 2021. As of this date, no vessel issued a Federal LAGC scallop permit may fish for, possess, or land scallops in or from the NGOM Scallop Management Area after 0001 local time, May 6, 2021, unless the vessel is fishing exclusively in state waters and is participating in an approved state waters exemption program as specified in § 648.54. Any federally permitted LAGC scallop vessel that has declared into the NGOM Scallop Management Area, complied with all trip notification and observer requirements, and crossed the vessel monitoring system demarcation line on the way to the area before 0001, May 6, 2021, may complete its trip and land scallops. This closure is in effect until the end of the 2021 scallop fishing year, through March 31, 2022. This closure does not apply to the Limited Access (LA) scallop fleet, which was allocated a separate TAC of 97,500 lb (44,225 kg) for the 2021 fishing year under Framework Adjustment 32 to the Atlantic Sea Scallop Fishery Management Plan. Vessels that are participating in the 2021 scallop Research Set-Aside Program and have been issued letters of authorization to conduct compensation fishing activities will harvest the 2021 LA TAC.

Classification

This action is required by 50 CFR part 648 and is exempt from review under Executive Order 12866.

The Assistant Administrator for fisheries, NOAA, finds good cause pursuant to 5 U.S.C. 553(d)(3), good cause to waive the 30-day delayed notice requirement for the reasons noted below. The NGOM Scallop Management Area opened for the 2021
fishing year on April 1, 2021. The regulations at § 648.60(b)(2) require this closure to ensure that federally permitted scallop vessels do not harvest more than the allocated LAGC TAC for the NGOM Scallop Management Area. NMFS can only make projections for the NGOM closure date as trips into the area occur on a real-time basis and as activity trends appear. As a result, NMFS can typically make an accurate projection only shortly before the TAC is harvested. The rapid harvest rate that has occurred in the last 2 weeks makes it more difficult to project a closure well in advance. To allow federally permitted LAGC scallop vessels to continue taking trips in the NGOM Scallop Management Area during the period necessary to publish and receive comments on a proposed rule would result in vessels harvesting more than the 2021 LAGC TAC for the NGOM Scallop Management Area. This would result in excessive fishing effort in the area thereby undermining conservation objectives of the Atlantic Sea Scallop Fishery Management Plan and requiring more restrictive future management measures to make up for the excessive harvest. Also, the public had prior notice and full opportunity to comment on this closure process when we put the final NGOM management provisions in place for the 2021 fishing year on March 31, 2020 (85 FR 17754).

Authority: 16 U.S.C. 1801 et seq.


Jennifer M. Wallace,
Acting Director, Office of Sustainable Fisheries, National Marine Fisheries Service.

For further information contact:
Megan Mackey, 907–586–7228.

SUPPLEMENTARY INFORMATION:

Authority for Action
NMFS manages the groundfish fisheries in the exclusive economic zone (EEZ) of the BSAI and GOA under the Groundfish FMPs. The North Pacific Fishery Management Council (Council) prepared the Groundfish FMPs under the authority of the Magnuson-Stevens Act, 16 U.S.C. 1801 et seq. Regulations governing U.S. fisheries and implementing the Groundfish FMPs appear at 50 CFR parts 600 and 679.

The proposed rule to implement this action was published in the Federal Register on February 26, 2021, with comments invited through March 29, 2021 (86 FR 11716). NMFS received 5 written comments of which 3 provided a total of 3 unique comments. The comments are summarized and responded to under the heading Comments and Responses below.

A detailed review of the provisions and rationale for this action is provided in the preamble to the proposed rule (86 FR 11716, February 26, 2021) and is briefly summarized in this final rule.

Background

Squids and sculpins are defined in the EC category of the Groundfish FMPs. Directed fishing for EC species is prohibited. Incidental catch of squid species is retained in some groundfish fisheries and often utilized to prevent waste. Typically, squids are not retained but can be in some circumstances.

The Council’s 2017 and 2019 actions to reclassify squids and sculpins, respectively, into the EC category of the Groundfish FMPs were based on the best available scientific information and were consistent with the National Standard (NS) guidelines. The Federal rulemakings to implement the Council’s actions prohibited the use or sale of incidentally caught squids and sculpins unless processed into fishmeal, in accordance with the regulations governing other EC species (85 FR 41427, July 10, 2020 [sculpin]; 83 FR 31460, July 6, 2018 [squid]). The purpose of this action is to provide flexibility for the use of incidentally caught squids and sculpins, thereby reducing the waste of these EC species, and aligning the regulations with the long-standing use of incidentally caught squids species as bait.

The following sections of this preamble provide:

• A brief history of the restriction on processing and sale of squids and sculpins,
• The expected effects of and need for this action, and
• A description of the regulatory change made by this final rule.

Brief History of the Restriction on Processing and Sale of Squids and Sculpins

EC species are stocks that a fishery management council (council) or the Secretary of Commerce (Secretary) has determined do not require conservation and management, but desire to list in an FMP in order to achieve ecosystem management objectives (50 CFR 600.305(c)(5) and (d)(13) and 50 CFR 600.310(d)(1)). Retention and personal use of some EC species in the Groundfish FMPs (forage fish, grenadiers, squids, and sculpins) is allowed up to the applicable maximum sustainable amount (MRA), which is the proportion or percentage of retained catch of a species closed for directed fishing (incidental catch species) to the retained catch of a species open for directed fishing (basis species) (50 CFR 679.20(e) and (f)). Current Federal regulations at 50 CFR 679.20((i)(4) and (5) prohibit the processing, barter, trade, and sale of EC species in Alaska (forage fish, grenadiers, squids, and sculpins) unless they are processed as fishmeal.

Amendment 96 to the BSAI FMP and Amendment 87 to the GOA FMP (Amendments 96/87) (75 FR 61639, October 6, 2010) established the EC category and prohibited species (defined in Table 2b to 50 CFR part 679, to include salmon, steelhead.

DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

50 CFR Part 679

[Docket No. 210504–0098]

RIN 0648–BK18

Fisheries of the Exclusive Economic Zone Off Alaska; Removing the Processing Restrictions on Incidentally Caught Squid and Sculpin Species in the Gulf of Alaska and Bering Sea and Aleutian Islands Groundfish Fisheries

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Final rule.
trout, crab, halibut, and herring) and forage fish (defined in Table 2c to 50 CFR part 679 and §679.20(i)) as EC species in both the Groundfish FMPs.

When Amendments 96/87 were recommended by the Council in 2010, the Council’s stated intention was that prohibited species and forage fish would be in the new EC category. Because the retention, processing, and sale of prohibited species and forage fish was not permitted before their placement in the EC category, those restrictions remained in place and unchanged under Amendments 96/87. The Council did not indicate whether it intended that species added to the EC category at a later date would be subject to those same restrictions.

When the Council took action to recommend reclassifying squids in the EC category in 2017, harvesters and processors expected that incidentally caught squids in the groundfish fisheries could be processed and sold as bait, consistent with long-standing and common market practice. Similarly, when the Council recommended reclassifying sculpins in the EC category in 2019, there was some interest in exploring food fish markets for incidentally caught sculpins, which have rarely been retained or processed. However, once squids and sculpins were reclassified in the EC category, existing Federal regulations at 50 CFR 679.20(i) applied to all EC species and prohibited the processing, barter, trade, and sale of squids and sculpins as anything other than fishmeal.

In October 2019, the Council initiated an analysis to reconsider the processing and sale restrictions on squids and sculpins in the EC category. No other species in the EC category were considered in this analysis. As a result, processing and sale restrictions will remain in place for prohibited species, forage fish, and grenadiers under this action.

The Expected Effects of and Need for This Action

Pursuant to this action, NMFS continues to manage squids and sculpins as EC species in the Groundfish FMPs. Directed fishing of squids and sculpins continues to be prohibited, and retention of squids and sculpins up to the MRA of 20 percent continues to be permitted. Recordkeeping and reporting requirements are maintained. The only change to current regulations is to remove the processing restrictions limiting processing and sale of squids and sculpins to fishmeal and include new regulations on allowable fish products for squids and sculpins.

Specifically, the regulations provide that retained catch of squids and sculpins not exceeding the MRA may be sold to a processor or processed into any product form—including (but not limited to) fishmeal, bait, and whole fish/food fish—for sale, barter, or trade. All other regulations pertaining to EC species remain in place.

The Council determined, and NMFS agrees, that this action will provide groundfish harvesters and processors with additional flexibility to conduct their business in an efficient manner by providing them with more options for the processing and sale of incidentally caught squids and sculpins up to the MRA, and will help reduce waste of these incidentally caught species.

Final Rule

This final rule removes the regulatory restriction that limits processing of incidentally caught squids and sculpins to fishmeal only and allows retained catch of squids and sculpins not exceeding the MRA to be sold to a processor or to be processed into any product form. This final rule is necessary to allow the processing and sale of squids and sculpins as products other than fishmeal and to help prevent waste of the incidental catch of these species. To make that change, this final rule revises language in 50 CFR 679.20(i).

Comments and Responses

NMFS received 5 comment letters containing a total of 3 unique comments.

Comment 1: Three commenters expressed support for this action.

Response: NMFS acknowledges these comments.

Comment 2: One commenter expressed support while also noting a concern that this action could encourage the fishing industry to push the limits of the MRA for squids and sculpins to obtain profit.

Response: Based on the Analysis, there is limited profit reason to expect the MRA to be pushed to its limits given that squids are low value and there is no current market for sculpins. The primary use of incidentally caught squids would be bait, however squids do not represent a significant portion of production for any processing community in the BSAI or GOA. In addition, the existing MRA for squids and sculpins of 20 percent is an appropriate and effective way to restrict retention while still allowing flexibility in operations. The MRA of 20 percent for squids and sculpins has been in place even before these species were moved to the EC category when there were no processing restrictions. At that time the instances of exceeding the 20 percent MRA were very rare. Finally, catch monitoring is in place to monitor whether the MRA is exceeded. If there are overages, that would be a regulatory violation that could result in enforcement action.

Comment 3: One commenter stated that the classification of squids and sculpins as EC species is illegal and asserted that removing processing restrictions on squids and sculpins is inconsistent with the Magnuson-Stevens Act and NMFS’s regulatory guidance. Specifically, the commenter stated that EC species do not have conservation and management measures and that NMFS is not able to prevent overfishing consistent with NS 1 without such measures. The commenter also stated that classifying species as EC species does not address NS 9’s requirements to reduce bycatch to the extent practicable.

Response: This general issue of the classification of EC species is outside the scope of this narrow rulemaking. However, we note that, when NMFS revised the NS guidelines in 2016 (81 FR 71858, October 18, 2016), NMFS included a new regulatory section addressing stocks in need of conservation and management (50 CFR 600.305(c)). The concept of EC species had been introduced in an even earlier 2009 rulemaking to revise the NS guidelines, and the 2016 rule was clear that it intended to provide further guidance on the question of what stocks require conservation and management without changing the previous 2009 guidance on the optional usage of EC species. NMFS addressed this in the 2016 final rule, and also responded to comments regarding whether 50 CFR 600.305(c) was consistent with the Magnuson-Stevens Act and its definition of “conservation and management” at 16 U.S.C. 1802(5) (81 FR 71858, see Comments and Responses Five, Seven, and Eleven). Those responses and the explanations regarding the 2009 and 2016 rulemakings are not repeated here.

While the commenter also argues that the classification of squids and sculpins as EC species was not consistent with the NS and NS guidelines, that issue is likewise outside the scope of this specific rulemaking. The classification of squids and sculpins as EC species occurred in previous rulemakings (85
In addition, the Council and NMFS considered measures to minimize incidental catch and mortality of EC species, consistent with NS 9, and to protect their role in the ecosystem, consistent with 50 CFR 600.305(c)(5). EC species do not require specification of biological reference points, but will be monitored as new, pertinent scientific information becomes available to determine changes in their status or their vulnerability to groundfish fisheries. By prohibiting directed fishing, maintaining the MRA, and maintaining recordkeeping and reporting requirements, the Council and NMFS recognized in those prior actions that the status quo is effectively being maintained while precluding any significant increase in bycatch. Retention of recordkeeping and reporting requirements provides information necessary should bycatch increase to levels such that conservation and management become necessary.

The Council has multiple tools to manage incidental catch, including maintaining a MRA to meet Council objectives. Contrary to the commenter’s assertion that EC species do not have conservation and management measures, there are management measures in place for all EC species, consistent with 50 CFR 600.305(c)(5), and EC species continue to be listed and managed under the Groundfish FMPs. This includes a prohibition on directed fishing, a limit on retention (the 20 percent MRA for squids and sculpins), and recordkeeping and reporting requirements to track retention of EC species. As stated above, this rulemaking does not change any of these management measures for squids and sculpins (or any other EC species).

With regard to this specific action (removing processing restrictions on squids and sculpins), these species would continue to be managed as EC species in the Groundfish FMPs. Targeting of squids and sculpins would continue to be prohibited, but retention of squids and sculpins up to the MRA of 20 percent would be permitted. Recordkeeping and reporting requirements would be maintained. The purpose of this action is to help prevent waste of the incidental catch of these species up to the 20 percent MRA and to align regulations with the longstanding use of squid bycatch as bait. Preventing waste of incidentally caught species mitigates the waste of these incidentally caught species, while management measures remain in place as tools to minimize and monitor bycatch of these species, to protect the roles of these species in the ecosystem, and to determine if later changes are necessary to their EC status.

**Changes From the Proposed Rule**

No changes were made from the proposed rule.

**Classification**

Pursuant to section 304(b)(3) of the Magnuson-Stevens Act, the NMFS Assistant Administrator has determined that this final rule is consistent with the Council’s regulatory amendment, the Groundfish FMPs, other provisions of the Magnuson-Stevens Act, and other applicable laws.

This final rule has been determined to be not significant for the purposes of Executive Order 12866.

**Certification Under the Regulatory Flexibility Act**

The Chief Counsel for Regulation for the Department of Commerce certified to the Chief Counsel for Advocacy of the Small Business Administration during the proposed rule stage that this action would not have a significant economic impact on a substantial number of small entities. The factual basis for the certification was published in the proposed rule and is not repeated here. No comments were received regarding this certification. As a result, a regulatory flexibility analysis was not required and none was prepared.

This final rule contains no information collection requirements under the Paperwork Reduction Act of 1995.

**List of Subjects in 50 CFR Part 679**

Alaska, Fisheries, Reporting and recordkeeping requirements.


Samuel D. Rauch, III
Deputy Assistant Administrator for Regulatory Programs, National Marine Fisheries Service.

For reasons set out in the preamble, NMFS amends 50 CFR part 679 as follows:

PART 679—FISHERIES OF THE EXCLUSIVE ECONOMIC ZONE OFF ALASKA

1. The authority citation for part 679 continues to read as follows:

2. In §679.20, revise paragraph (i) to read as follows:

§ 679.20 General limitations.

(i) Forage fish, grenadiers, squids, and sculpins—(1) Definition. See Table 2c to this part.

(2) Applicability. The provisions of this paragraph (i) apply to all vessels fishing for groundfish in the BSAI or GOA, and to all vessels processing groundfish harvested in the BSAI or GOA.

(3) Closure to directed fishing. Directed fishing for forage fish, grenadiers, squids, and sculpins is prohibited at all times in the BSAI and GOA.

(4) Limits on sale, barter, trade, and processing of forage fish and grenadiers. The sale, barter, trade, or processing of forage fish and grenadiers is prohibited, except as provided in paragraph (i)(5) of this section.

(5) Allowable fishmeal production of forage fish and grenadiers. Retained catch of forage fish or grenadiers not exceeding the maximum retainable amount may be processed into fishmeal for sale, barter, or trade.

(6) Allowable fish products for squids and sculpins. Retained catch of squids and sculpins not exceeding the maximum retainable amount may be sold to a processor or processed into any product form, including (but not limited to) fishmeal, bait, and whole fish/food fish, for sale, barter, or trade.

* * * * *
DEPARTMENT OF HOMELAND SECURITY

U.S. Citizenship and Immigration Services

8 CFR Parts 1, 103, 204, 207, 208, 209, 210, 212, 214, 215, 216, 235, 236, 240, 244, 245, 245a, 264, 287, 316, 333 and 335

[CIS No. 2644–19; DHS Docket No. USCIS–2019–0007]

RIN 1615–AC14

Collection and Use of Biometrics by U.S. Citizenship and Immigration Services; Withdrawal

AGENCY: U.S. Citizenship and Immigration Services, DHS.

ACTION: Proposed rule; withdrawal.

SUMMARY: The U.S. Department of Homeland Security (DHS) is withdrawing a proposed rule that published on September 11, 2020. The notice of proposed rulemaking proposed to amend DHS regulations concerning the use and collection of biometrics in the enforcement and administration of immigration laws by U.S. Citizenship and Immigration Services, U.S. Customs and Border Protection, and U.S. Immigration and Customs Enforcement (ICE). DHS is withdrawing the September 11, 2020, NPRM for a number of reasons.

In response to the NPRM, DHS received 5,147 comments during the 30-day public comment period, and 192 comments on the rule’s information collection requirements before the comment period ended. Commenters consisted of individuals, advocacy groups, legal service providers, professional associations, State or local governments, and social organizations. The majority of commenters expressed general opposition to the rule, mentioning immigration policy concerns, general privacy concerns, and economic concerns (both to individuals and communities). Many commenters wrote that the rule was unnecessary, offensive, an invasion of privacy, would infringe on freedoms, and violate the respect, privacy rights, and civil liberties of U.S. citizens, legal immigrants, noncitizens, victims of domestic violence, other vulnerable parties, and children. Many commenters stated that the rule was overly broad, highly invasive, and would impose excessive monetary costs on applicants and result in administrative delays in adjudicating immigration benefit requests that are already subjected to backlogs and long waits.

Executive Order 14012, “Restoring Faith in Our Legal Immigration Systems and Strengthening Integration and Inclusion Efforts for New Americans,” in section 3(a)(1), instructs the Secretary of Homeland Security to identify barriers that impede access to immigration benefits. 86 FR 8277, (Feb. 5, 2021) (“E.O. 14012”). Having reviewed the public comments received in response to the NPRM in light of Executive Order 14012, DHS has decided to withdraw the NPRM. The proposed rule was intended to provide DHS with the flexibility to change its biometrics collection practices and policies to ensure that necessary adjustments can be made to meet emerging needs, enhance the use of biometrics beyond background checks and document production to include identity verification and management in the immigration lifecycle, enhance vetting to lessen the dependence on paper documents to prove identity and familial relationships, preclude imposters, and improve the consistency in biometrics terminology within DHS. DHS still supports the goals of the NPRM to have flexibility in its immigration benefit administration biometrics collection practices and policies and enhance the use of biometrics for identity verification and management but not in a way that conflicts with Executive Order 14012. DHS, USCIS, CBP, and ICE remain committed to national security, identity management, fraud prevention and program integrity, and will continue to require the submission of biometrics where appropriate. See, e.g., INA section 333 and 335 (requiring submission of photographs and a personal investigation before an application for naturalization may be approved); INA section 264(a) (directing the collection of fingerprints for the purpose of registering aliens); 8 U.S.C. 1732(b)(1) (requiring that alien visas and other travel and entry documents use biometric identifiers); 8 U.S.C. 1365a–1365b (requiring creation of a biometric data system for national security purposes). DHS may engage in a future rulemaking to enhance our biometrics requirements while not hindering access to the immigration system and protecting privacy and civil liberties.

However, commenters suggested that the breadth of the biometrics submission requirements that were proposed in the proposed rule are more than what is necessary to meet the requirements of the adjudication of immigration and naturalization benefits. DHS has considered the commenters concerns, and believe some of them may be justified and require additional deliberation. Accordingly, DHS is withdrawing the NPRM and will analyze the entirety of the NPRM in the context of the directive in E.O. 14012 and what changes may be appropriate and consistent with DHS’s needs.
policies, and applicable law. In the meantime, DHS’s current biometrics collection practices and policies are sufficient to meet the statutory and regulatory requirements for document production and the vetting of any applicant, petitioner, sponsor, beneficiary, or individual filing or associated with an immigration benefit or request, including United States citizens.

Authority
As stated in the NPRM, DHS has general and specific statutory authority to collect or require submission of biometrics from applicants, co-applicants, petitioners requestors, derivatives, beneficiaries and others directly associated with a request for immigration benefits; and for purposes incident to apprehending, arresting, processing, and care and custody of aliens. 85 FR 56347. DHS is withdrawing the NPRM using those same authorities.


DEPARTMENT OF HOMELAND SECURITY

U.S. Citizenship and Immigration Services

8 CFR Parts 106, 241, and 274a
[CIS No. 2653–19; DHS Docket No. USCIS–2019–0024]

RIN 1615–AC40

Employment Authorization for Certain Classes of Aliens With Final Orders of Removal; Withdrawal

AGENCY: U.S. Citizenship and Immigration Services, DHS.

ACTION: Proposed rule; withdrawal.

SUMMARY: The U.S. Department of Homeland Security (DHS) is withdrawing a notice of proposed rulemaking (NPRM) that published on November 19, 2020. The NPRM proposed to revise DHS regulations governing employment authorization for individuals who have a final order of removal and are released from DHS custody on an order of supervision. The NPRM also proposed to amend DHS regulations to clearly indicate the employment eligibility of individuals who have been granted deferral of removal based on the United States’ obligations under the Convention Against Torture and Other Cruel, Inhuman or Degrading Treatment or Punishment (CAT).

DATES: DHS withdraws the NPRM as of May 10, 2021.


FOR FURTHER INFORMATION CONTACT: Steven P. Kvortek, Acting Chief, Security and Public Safety Division, Office of Policy and Strategy, U.S. Citizenship and Immigration Services, DHS, 5900 Capital Gateway Drive, Camp Springs, MD 20746; telephone 240–721–3000 (this is not a toll-free number). Individuals with hearing or speech impairments may access the telephone numbers above via TTY by calling the toll-free Federal Information Relay Service at 1–877–889–5627 (TTY/TDD).

SUPPLEMENTARY INFORMATION:

On November 19, 2020, DHS published an NPRM titled “Employment Authorization for Certain Classes of Aliens With Final Orders of Removal.” (85 FR 74196). This NPRM proposed to eliminate employment authorization under 8 CFR 274a.12(c)(18) for individuals who have a final order of removal and are released on an order of supervision with a narrow exception. DHS also proposed to amend its regulations to clearly indicate that individuals who have been granted CAT deferral of removal would be employment authorized based on their grant of CAT deferral of removal. In response to the NPRM, DHS received more than 302 comments during the 30-day public comment period. Nearly 98 percent of commenters opposed the proposed rule with several commenters specifically requesting that DHS withdraw the NPRM. Less than 2 percent expressed support for the rule with such commenters generally supporting the rule because they believed it would deter illegal immigration and protect U.S. workers. The commenters who opposed the NPRM argued that it would significantly limit the ability of individuals who have a final order of removal and are released on an order of supervision to legally work, be self-sufficient, and support their families, which may include U.S. citizen children and lawful permanent resident spouses or partners. Several commenters also noted the proposed rule would impose exorbitant costs and burdens on U.S. employers related to labor turnover and the proposed E-Verify requirement. Various state and local agencies, including Attorneys General from 15 states, also opposed the rule on the basis it would decrease tax revenue, deny states various revenue streams, and increase costs related to state-funded public benefit programs. Many commenters also disagreed with the NPRM’s assertion that the proposed changes would incentivize individuals with final orders of removal to leave the United States. They argued that the majority of individuals who have a final order of removal and are released on an order of supervision are in the United States with DHS’s acknowledgment, as reflected by their release on an order of supervision, and that DHS’s inability to remove them primarily stems not from inaction on the individual’s part but due to the unwillingness of foreign governments to issue them travel documents and cooperate in their repatriation.

The NPRM stemmed from two executive orders issued by President Trump, which have been revoked since the publication of the NPRM. DHS initiated the regulatory action pursuant to Executive Order 13768, “Enhancing Public Safety in the Interior of the United States” (Jan. 24, 2017) and Executive Order 13788, “Buy American and Hire American” (Apr. 18, 2017). These executive orders directed DHS to revise or rescind any regulations inconsistent with these orders. DHS issued the NPRM after determining that the current regulations at 8 CFR 274a.12(c)(18) could be inconsistent with the above-mentioned executive orders.

On January 20, 2021, President Biden issued Executive Order 13993, “Revision of Civil Immigration Enforcement Policies and Priorities,” which revoked Executive Order 13768. Further, on January 25, 2021, President Biden issued Executive Order 14005, “Ensuring the Future Is Made in All of America by All of America’s Workers,” which revoked Executive Order 13788. Executive Orders 13993 and 14005 directed agencies to review, revise, or rescind any agency actions or guidance inconsistent with the executive orders.

Having reviewed the NPRM and the public comments in light of Executive Orders 13993 and 14005, DHS has decided to withdraw the NPRM. The original bases and rationale for promulgating the NPRM no longer align with the current Administration’s immigration enforcement priorities. This Administration is focused on protecting the interests of American workers by ensuring the **[Federal
Government) . . . procure[s] goods, products, materials, and services from sources that will help American businesses compete in strategic industries and help America’s workers thrive.” By withdrawing the proposed rule, the Administration will allow individuals with final orders of removal who are released from DHS custody on an order of supervision, and are in a position to work, to continue to work for American businesses that provide services in key industries and to supplement the existing U.S. workforce.

As noted in Executive Order 13933, which articulates the Administration’s overarching values and priorities on civil immigration enforcement, “the task of enforcing the immigration laws is complex and requires setting priorities to best serve the national interest.”

DHS has been directed to focus its limited resources on national and border security, addressing the humanitarian challenges at the southern border, and ensuring public health and safety.

In doing so, DHS must develop enforcement priorities and use its limited resources to pursue those priorities. Additionally, the limited resources of the agency and the significant operational challenges caused by the COVID–19 pandemic do not allow DHS to respond to all immigration violations or remove all individuals with a final order of removal.

DHS’s enforcement priorities, including removals, are to be focused on national security, public safety, and border security.

DHS believes that continuing to provide employment authorization to individuals who have a final order of removal and are released from DHS custody on an order of supervision is consistent with this Administration’s values and priorities on immigration enforcement. It will allow individuals who do not fall within the Administration’s enforcement priorities and who are still in the United States to continue to qualify for employment authorization, to legally work, remain self-sufficient, and support their families, which in many instances include U.S. citizen children.

This withdrawal notice does not affect the continued employment eligibility of individuals who have been granted CAT deferral of removal. Such individuals currently qualify for employment authorization under 8 CFR 274a.12(c)(18) and will continue to do so. The primary purpose behind the proposed regulatory amendments related to individuals with CAT deferral of removal was to clearly indicate in the regulations that individuals with CAT deferral of removal are eligible for employment authorization. Even though DHS is not pursuing the proposed regulatory amendments at this time, individuals who are granted CAT deferral of removal will continue to qualify for employment authorization under 8 CFR 274a.12(c)(18). DHS plans to consider similar regulatory amendments clarifying eligibility for employment authorization for individuals with CAT deferral of removal as part of future rulemaking efforts consistent with DHS’s priorities, policies, and applicable law.

For all the reasons discussed above, DHS is withdrawing the NPRM.

**Authority**

As stated in the NPRM, DHS has general and specific statutory authority to detain individuals with final orders of removal, release such individuals from custody on an order of supervision, and grant them employment authorization. 85 FR 74211. DHS is withdrawing the NPRM using those same authorities. Executive Order 13933, “Revision of Civil Immigration Enforcement Policies and Priorities;” Executive Order 14005, “Ensuring the Future Is Made in All of America by All of America’s Workers;” 8 U.S.C. 1324a(b)(3); and 8 U.S.C. 1231(a)(7).

Alejandro N. Mayorkas,

[FR Doc. 2021–09670 Filed 5–7–21; 8:45 am]

**BILLING CODE** 9111–97–P

---

**DEPARTMENT OF ENERGY**

**10 CFR Part 431**

**[EERE–2011–BT–DET–0045]**

**RIN 1904–AC55**

**Energy Conservation Program: Coverage Determination for Commercial and Industrial Fans**

**AGENCY:** Office of Energy Efficiency and Renewable Energy, Department of Energy.

**ACTION:** Request for information.

**SUMMARY:** The U.S. Department of Energy (“DOE”) requests comment on a potential definition of “commercial and industrial fan” for consideration in determining whether such equipment should be classified as covered equipment under Part C of Title III of the Energy Policy and Conservation Act, as amended. DOE welcomes written comments from the public on any subject within the scope of this document (including topics not raised in this RFI), as well as the submission of data and other relevant information.

**DATES:** Written comments and information are requested and will be accepted on or before May 25, 2021.

**ADDRESSES:** Interested persons are encouraged to submit comments using the Federal eRulemaking Portal at http://www.regulations.gov. Follow the instructions for submitting comments. Alternatively, interested persons may submit comments, identified by docket number EERE–2011–BT–DET–0045, by any of the following methods:


2. Email: to commercialindustrialfansDET0045@ee.doe.gov. Include docket number EERE–2011–BT–DET–0045 in the subject line of the message.

No telefacsimiles (“faxes”) will be accepted. For detailed instructions on submitting comments and additional information on this process, see section III of this document.

Although DOE has routinely accepted public comment submissions through a variety of mechanisms, including postal mail and hand delivery/courier, the Department has found it necessary to make temporary modifications to the comment submission process in light of the ongoing Covid–19 pandemic. DOE is currently suspending receipt of public comments via postal mail and hand delivery/courier. If a commenter finds that this change poses an undue hardship, please contact Appliance Standards Program staff at (202) 586–1445 to discuss the need for alternative arrangements. Once the Covid–19 pandemic health emergency is resolved, DOE anticipates resuming all of its regular options for public comment submission, including postal mail and hand delivery/courier.

**Docket:** The docket for this activity, which includes Federal Register notices, comments, and other supporting documents/materials, is available for review at http://www.regulations.gov. All documents in the docket are listed in the http://www.regulations.gov index. However, some documents listed in the index such as those containing information...
that is exempt from public disclosure, may not be publicly available.

The docket web page can be found at http://www.regulations.gov/docket/EEERE-2011-BT-DET-0045. The docket web page contains instructions on how to access all documents, including public comments, in the docket. See section III for information on how to submit comments through http://www.regulations.gov.

FOR FURTHER INFORMATION CONTACT:


For further information on how to submit a comment or review other public comments and the docket, contact the Appliance and Equipment Standards Program staff at (202) 287–1445 or by email: ApplianceStandardsQuestions@ee.doe.gov.

SUPPLEMENTARY INFORMATION:

Table of Contents
I. Introduction
   A. Authority
   B. Background
II. Request for Information
III. Submission of Comments

I. Introduction

The following section briefly discusses the statutory authority underlying this request for information, as well as some of the historical background relevant to the potential inclusion of commercial and industrial fans as covered equipment under the Energy Policy and Conservation Act, as amended (“EPCA”).

A. Authority

EPCA authorizes DOE to regulate the energy efficiency of a number of consumer products and certain industrial equipment. (42 U.S.C. 6291–6317) Title III, Part C of EPCA established the Energy Conservation Program for Certain Industrial Equipment, which sets forth a variety of provisions designed to improve energy efficiency of certain commercial and industrial equipment (hereafter referred to as “covered equipment”).

EPCA specifies a list of equipment that constitutes covered equipment. (42 U.S.C. 6311(1)) EPCA also provides that “covered equipment” includes any other type of industrial equipment for which the Secretary of Energy (“Secretary”) determines inclusion is necessary to carry out the purpose of this part. (42 U.S.C. 6311(1)(L); 42 U.S.C. 6312(b)) EPCA specifies the types of industrial equipment that can be classified as covered equipment. This industrial equipment includes fans and blowers. (42 U.S.C. 6311(2)(B)(i) and (iii)) Additionally, in order to be classified as covered equipment, the industrial equipment must be of a type that: (1) Consumes, or is designed to consume, energy in operation; (2) is distributed in commerce for industrial or commercial use; and (3) is not a covered product as defined in 42 U.S.C. 6291(a)(2). (42 U.S.C. 6311(2)(A))

B. Background

On June 28, 2011, DOE published a notice of proposed determination of coverage that fans, blowers, and fume hoods qualify as covered equipment. 76 FR 37678 (“June 2011 NOPD”). DOE also proposed definitions for the terms “fan,” “blower,” and “fume hood.” In the June 2011 NOPD, DOE preliminarily determined that coverage of fans, blowers, and fume hoods is necessary to carry out the purposes of Part A–1 because coverage will promote the conservation of energy supplies. 76 FR 37678, 37680. DOE estimated that technologies exist which can reduce the electricity consumption of fans and blowers by as much as 20 percent and that there are technologies and design strategies for fume hoods that could reduce energy by 50 percent. Id. DOE requested comment on the proposed definitions and its preliminary determination that coverage of fans, blower, and fume hoods is necessary to carry out the purposes of Part A–1. 76 FR 37678, 37682.

In parallel with the proposed determination rulemaking process, DOE published notice of a framework document that detailed an analytical approach for developing potential energy conservation standards for commercial and industrial fans and blowers should the Secretary classify such industrial equipment as covered equipment. 8 FR 7306 (February 1, 2013). The January 2013 Framework Document included revised definitions for “fan” and “blower.” DOE also established a negotiated rulemaking working group under the Appliance Standards and Rulemaking Federal Advisory Committee to negotiate proposed definitions, test procedures and energy conservation standards for commercial and industrial fans and blowers. The Working Group held 16 meetings and three webinars and concluded its negotiations on September 3, 2015, with the approval of a term sheet containing recommendations for DOE.

On January 10, 2020, DOE received a petition from the Air Movement and Control Association (AMCA), International, Air Conditioning Contractors of America, and Sheet Metal & Air Conditioning Contractors of America requesting that DOE establish a Federal test procedure for certain categories of fans based on an upcoming industry test method, AMCA 214, Test Procedure for Calculating Fan Energy Index (FEI) for Commercial and Industrial Fans and Blowers. DOE published a notice of petition and request for public comment. 85 FR 22677 (April 23, 2020) (“April 2020 Notice of Petition”). To date DOE has not classified commercial and industrial fans as covered equipment and has not proposed test procedures or energy conservation standards for this equipment.

II. Request for Information

Although EPCA lists fans and blowers as types of industrial equipment, these terms are not defined. As noted, DOE proposed definitions for “fan” and “blower” in the June 2011 NOPD. Specifically, DOE proposed the following definitions:

A fan is an electrically powered device used in commercial or industrial systems to provide a continuous flow of a gas, typically air, for ventilation, circulation, or other industrial process requirements. Fans are classified as axial or centrifugal. Axial fans move an airstream along the axis of the fan. Centrifugal fans generate airflow by accelerating the airstream radially. A fan may include some or all of the following components: motor and motor controls, rotor or fan blades, and transmission and housing. A blower is a type of centrifugal fan.

June 2011 NOPD, 76 FR 37678, 37679. Taking into consideration the comments...
received to the June 2011 NOPD, DOE considered the following definitions for “fan” and “blower” in the January 2013 Framework Document:

**Commercial/Industrial Fan:** A device used in commercial or industrial systems to provide a continuous flow of a gas, typically air, by an impeller fit to a shaft and bearing(s). A fan may be manufactured with or without a housing component.

**Blower:** An axial or centrifugal fan with a specific ratio between 1.11 and 1.20.

(January 2013 Framework Document at pp. 7 and 9) DOE also acknowledged that the terms “fan” and “blower” are used interchangeably by the industry. Id. at p. 7.

The industry test procedure referenced in AMCA’s petition for a federal test procedure has since been finalized as ANSI/AMCA Standard 214–21, Test Procedure for Calculating Fan Energy Index (FEI) for Commercial and Industrial Fans and Blowers (“ANSI/AMCA Standard 214–21”). The newly finalized industry test procedure contains the following definition for a fan: “a rotary-bladed machine used to convert electrical or mechanical power into air power, with an energy output limited to 25 kJ/kg of air. It consists of an impeller, shaft, bearings and/or motor controller.”

DOE is considering establishing a definition of “commercial and industrial fan” that is identical to the definition of “fan” in ANSI/AMCA Standard 214–21. As discussed, DOE has initially determined that the terms “fan” and “blower” are used interchangeably. DOE is considering including the descriptor “commercial and industrial” with the term to clarify that the subject fans are industrial equipment and that the term excludes ceiling fans and furnace fans, both covered products defined at 10 CFR 430.2.

DOE notes that the maximum energy limit of 25 kJ/kg of air is equivalent to a pressure ratio of 1.3. The current definition of a compressor at 10 CFR 431.342 states that, among other things, a compressor has a pressure ratio at full-load operating pressure greater than 1.3. As a result, DOE initially concludes that the maximum fan energy limit of 25 kJ/kg is appropriate to distinguish commercial and industrial fans from compressors.

With regard to the criterion that a commercial and industrial fan must convert “electrical and mechanical power into air power,” fans that are powered by an engine or any other driver would meet this criterion as the engine or other driver would be providing mechanical power that is converted into air power.

DOE requests comment on the definition of commercial and industrial fans as considered in this RFI. The definition being considered is identical to the definition of “fan” in ANSI/AMCA Standard 214–21. Specifically, DOE is requesting comment on whether this definition would accurately describe equipment generally understood as commercial and industrial fans.

### III. Submission of Comments

DOE invites all interested parties to submit in writing by the date specified under the DATES heading, comments and information on matters addressed in this RFI for commercial and industrial fans. These comments and information will aid in the development of a final determination for commercial and industrial fans if DOE determines that a final determination is appropriate for this equipment.

**Submitting comments via email.**

Comments and documents submitted via email also will be posted to http://www.regulations.gov. If you do not want your personal contact information to be publicly viewable, do not include it in your comment or any accompanying documents. Instead, provide your contact information on a cover letter. Include your first and last names, email address, telephone number, and optional mailing address. The cover letter will not be publicly viewable as long as it does not include any comments.

Include contact information each time you submit comments, data, documents, and other information to DOE. Faxes will not be accepted.

Comments, data, and other information submitted to DOE electronically should be provided in PDF (preferred), Microsoft Word or Excel, WordPerfect, or text (ASCII) file format. Provide documents that are not secured, written in English and free of any defects or viruses. Documents should not contain special characters or any form of encryption and, if possible, they should carry the electronic signature of the author.

**Campaign form letters.** Please submit campaign form letters by the originating organization in batches of between 50 to 500 form letters per PDF or as one form letter with a list of supporters’ names compiled into one or more PDFs. This reduces comment processing and posting time.

**Confidential Business Information.**

According to 10 CFR 1004.11, any

---


6 ANSI/AMCA Standard 214–21 at p. 3.

7 For an air density of 1.2 kg/m3, the fan pressure is 1.2 kg/m3 x 25 kJ/kg, i.e., 30 kPa, and the pressure ratio is calculated as (100–30)/100 = 1.30 (where atmospheric pressure = 100 kPa).
person submitting information that he or she believes to be confidential and exempt by law from public disclosure should submit via email two well-marked copies: one copy of the document marked confidential including all the information believed to be confidential, and one copy of the document marked “non-confidential” with the information believed to be confidential deleted. DOE will make its own determination about the confidential status of the information and treat it according to its determination.

It is DOE’s policy that all comments may be included in the public docket, without change and as received, including any personal information provided in the comments (except information deemed to be exempt from public disclosure).

DOE considers public participation to be a very important part of the process for developing test procedures and energy conservation standards. DOE actively encourages the participation and interaction of the public during the comment period in each stage of this process. Interactions with and between members of the public provide a balanced discussion of the issues and assist DOE in the process. Anyone who wishes to be added to the DOE mailing list to receive future notices and information about this process should contact Appliance and Equipment Standards Program staff at (202) 287–1445 or via email at ApplianceStandardsQuestions@ee.doe.gov.

**Signing Authority**

This document of the Department of Energy was signed on April 25, 2021 by Kelly Speakes-Backman, Principal Deputy Assistant Secretary and Acting Assistant Secretary for Energy Efficiency and Renewable Energy, pursuant to delegated authority from the Secretary of Energy. That document with the original signature and date is maintained by DOE. For administrative purposes only, and in compliance with requirements of the Office of the Federal Register, the undersigned DOE Federal Register Liaison Officer has been authorized to sign and submit the document in electronic format for publication, as an official document of the Department of Energy. This administrative process in no way alters the legal effect of this document upon publication in the Federal Register.

Signed in Washington, DC, on May 4, 2021.

Treena V. Garrett,  
Federal Register Liaison Officer, U.S. Department of Energy.

[FR Doc. 2021–09723 Filed 5–7–21; 8:45 am]

**BILLING CODE 6450–01–P**

---

**DEPARTMENT OF TREASURY**

**Office of the Comptroller of the Currency**

12 CFR Part 30  
[Docket ID OCC–2020–0043]  
RIN 1557–AF03

**FEDERAL RESERVE SYSTEM**

12 CFR Part 208  
[Docket No. R–1746]  
RIN 7100–AG 14

**FEDERAL DEPOSIT INSURANCE CORPORATION**

12 CFR Part 364  
RIN 3064–AF62

**Tax Allocation Agreements**

**AGENCY:** Office of the Comptroller of the Currency, Treasury; Board of Governors of the Federal Reserve System; and Federal Deposit Insurance Corporation.  

**ACTION:** Notice of proposed rulemaking and comment request.

**SUMMARY:** The Office of the Comptroller of the Currency, the Board of Governors of the Federal Reserve System, and the Federal Deposit Insurance Corporation (collectively, the agencies) are inviting comments on a proposed rule (proposal) under section 39 of the Federal Deposit Insurance Act that would establish requirements for tax allocation agreements between institutions and their holding companies in a consolidated tax filing group. The proposal would promote safety and soundness by preserving depository institutions’ ownership rights in tax refunds and ensuring equitable allocation of tax liabilities among entities in a holding company structure. Under the proposal, national banks, state banks, and savings associations that file tax returns as part of a consolidated tax filing group would be required to enter into tax allocation agreements with their holding companies and other members of the consolidated group that join in the filing of a consolidated group tax return. The proposal also would describe specific mandatory provisions in these tax allocation agreements, including provisions addressing the ownership of tax refunds received. If the agencies were to adopt the proposal as a final rule, the agencies would rescind the interagency policy statement on tax allocation agreements that was issued in 1998 and supplemented in 2014.

**DATES:** Comments must be received by July 9, 2021.

**ADDRESSES:** Comments should be directed to:  
OCC: Commenters are encouraged to submit comments through the Federal eRulemaking Portal. Please use the title “Tax Allocation Agreements” to facilitate the organization and distribution of the comments. You may submit comments by any of the following methods:  
• Federal eRulemaking Portal—Regulations.gov: Go to https://regulations.gov/. Enter “Docket ID OCC–2020–0043” in the Search Box and click “Search.” Public comments can be submitted via the “Comment” box below the displayed document information or by clicking on the document title and then clicking the “Comment” box on the top-left side of the screen. For help with submitting effective comments please click on “Commenter’s Checklist.” For assistance with the Regulations.gov site, please call (877) 378–5457 (toll free) or (703) 454–9859 Monday–Friday, 9 a.m.–5 p.m. ET or email regulations@erulemakinghelpdesk.com.  
• Hand Delivery/Courier: 400 7th Street SW, Suite 3E–218, Washington, DC 20229.

Instructions: You must include “OCC” as the agency name and “Docket ID OCC–2020–0043” in your comment. In general, the OCC will enter all comments received into the docket and publish the comments on the Regulations.gov website without change, including any business or personal information provided such as name and address information, email addresses, or phone numbers. Comments received, including attachments and other supporting materials, are part of the public record and subject to public disclosure. Do not include any information in your comment or supporting materials that you consider confidential or inappropriate for public disclosure.
FDIC: You may submit comments, identified by FDIC RIN 3064–AF62, by any of the following methods:

- **Agency Website:** https://www.fdic.gov/regulations/laws/federal/

Follow instructions for submitting comments on the Agency website. You may submit comments, identified by FDIC RIN 3064–AF62, by any of the following methods:

- **Mail:** James P. Sheesley, Assistant Executive Secretary, Attention: Comments—RIN 3064–AF62/Legal ESS, Federal Deposit Insurance Corporation, 550 17th Street NW, Washington, DC 20429.

  - **Hand Delivery/Courier:** Comments may be hand-delivered to the guard station at the rear of the 550 17th Street NW building (located on F Street) on business days between 7:00 a.m. and 5:00 p.m.

  - **Email:** comments@FDIC.gov. Comments submitted must include “FDIC RIN 3064–AF62” on the subject line of the message.

  - **Public Inspection:** All comments received must include “FDIC RIN 3064–AF62” for this rulemaking. All comments received will be posted without change to https://www.fdic.gov/regulations/laws/federal/, including any personal information provided. Paper copies of public comments may be requested from the FDIC Public Information Center, or by telephone at (877) 275–3342 or (703) 562–2200.

**FOR FURTHER INFORMATION CONTACT:**

**OCC:** Carol Raskin, Senior Policy Accountant, or Mary Katherine Kearney, Professional Accounting Fellow, Office of the Chief Accountant, 202–649–6280; Kevin Korzeniewski, Counsel, or Joanne Phillips, Counsel, Chief Counsel’s Office, (202) 649–5490.

**Board:** Lara Lyllozan, Chief Accountant, (202) 475–6656; Juan Climent, Assistant Director, (202) 872–7526; Kathryn Ballintine, Manager, (202) 452–2555; Michael Ofori-Kuragu, Senior Financial Institution Policy Analyst II, (202) 475–6623, Sasha Pechonik, Senior Accounting Policy Analyst, (202) 452–3608, Division of Supervision and Regulation; Benjamin W. McDonough, Associate General Counsel, (202) 452–2036; Asad Kudiya, Senior Counsel, (202) 475–6358; Lucy Chang, Senior Counsel, (202) 475–6331; Joshua Strazanac, Senior Attorney, (202) 452–2457; David Imhoff, Attorney, (202) 452–2249, Legal Division, Board of Governors of the Federal Reserve System, 20th and C Streets NW, Washington, DC 20551. For the hearing impaired only, Telecommunication Device for the Deaf (TDD), (202) 263–4869.

**FDIC:** John Rieger, Chief Accountant, (202) 898–3602, jrieger@fdic.gov; Andrew Overton, Senior Examination Specialist, (202) 898–9229, aoverton@fdic.gov. Accounting and Securities Disclosure Section, Division of Risk Management Supervision; Jeffrey Schmitt, Counsel, (703) 562–2429, jschmitt@fdic.gov; Joyce M. Raidle, Counsel, (202) 898–6763, jraidle@fdic.gov; Francis Kuo, Counsel, (202) 898–6654, fkuo@fdic.gov, Legal Division.

### SUPPLEMENTARY INFORMATION:

#### Table of Contents

I. Introduction

A. Summary of Proposal

B. Background

II. Description of the Proposal

A. Scope of Application

B. Tax Allocation in a Holding Company Structure

C. Tax Allocation Agreements and Key Terms

D. Regulatory Reporting

III. Incorporation of the Proposal as an Appendix to the Agencies’ Safety and Soundness Rules

IV. Impact Analysis

V. Administrative Law Matters

A. Paperwork Reduction Act

B. Regulatory Flexibility Act

C. Plain Language

D. Riegle Community Development and Regulatory Improvement Act of 1994

E. OCC Unfunded Mandates Reform Act of 1995

I. Introduction

A. Summary of Proposal

The Office of the Comptroller of the Currency (OCC), the Board of Governors of the Federal Reserve System (Board), and the Federal Deposit Insurance Corporation (FDIC) (collectively, the agencies) are inviting comment on a proposed rule (proposal) that would prescribe requirements for tax allocation agreements that involve insured depository institutions and OCC chartered uninsured institutions supervised by the agencies (collectively, institutions). Under the proposal, institutions in a consolidated tax filing group (consolidated group) would be required to enter into tax allocation agreements with their holding companies and other members of the consolidated group that join in the filing of a consolidated group tax return. The proposal would establish a methodology for tax payment obligations between an institution and its parent holding company within a consolidated group.

---

1 National banks and Federal savings associations, OCC; state member banks (Board); and state nonmember banks and state savings associations (FDIC).

2 A consolidated group refers to an institution, its parent, and any affiliates of the institution that join in the filing of a tax return as a single consolidated, combined, or unitary group.
and would address how the institution should be compensated for the use of its tax assets (such as net operating losses and tax credits). The proposal would be adopted primarily under Section 39 of the Federal Deposit Insurance Act (FDI Act) 4 and codified within the agencies’ safety and soundness regulations. The proposal would require institutions to include certain provisions in all tax allocation agreements, such as: The timing and amounts of any payments for taxes due to taxing authorities; the acknowledgment of an agency relationship between institutions and their holding companies in a consolidated group with respect to tax refunds received; and a provision stating that documents, including returns, representing a consolidated or combined federal, state, or local income tax filings must be made available to an institution or any successor during regular business hours. The proposal further addresses the regulatory reporting treatment of an institution’s deferred tax assets (DTAs).

B. Background

In 1998, the agencies and the Office of Thrift Supervision 5 adopted the Interagency Policy Statement on Income Tax Allocation in a Holding Company Structure 6 (Interagency Policy Statement) to provide guidance to insured depository institutions, their holding companies, and other affiliates regarding the allocation and payment of taxes when these entities file income tax returns on a consolidated basis. One of the principal goals of the Interagency Policy Statement is to clarify insured depository institutions’ ownership rights in tax refunds when the consolidated group elects to file a consolidated tax return. The Interagency Policy Statement states that tax settlements between an insured depository institution and its holding company should be conducted in a manner that is no less favorable to the insured depository institution than if it were a separate entity, and that whenever a holding company receives a tax refund from any taxing authority, and the refund is one that is attributable to its subsidiary insured depository institution, the holding company is acting purely as an agent for the insured depository institution.

In 2014, the agencies issued an addendum to the Interagency Policy Statement to emphasize that tax allocation agreements should expressly acknowledge an agency relationship between a holding company and its subsidiary insured depository institution to protect the insured depository institution’s ownership rights in tax refunds (2014 Addendum). The 2014 Addendum also clarifies that all tax allocation agreements are subject to section 23B of the Federal Reserve Act (section 23B). In addition, the 2014 Addendum provides that tax allocation agreements that do not clearly acknowledge the presence of an agency relationship between the holding company and the subsidiary insured depository institution may be subject to requirements under section 23A of the Federal Reserve Act (section 23A). Moreover, the 2014 Addendum clarifies that section 23B requires a holding company to transmit promptly to its subsidiary insured depository institution any tax refunds received from a taxing authority that are attributable to the insured depository institution. Sections 23A and 23B apply to institutions supervised by the agencies. 10

In their supervision of institutions, the agencies have observed that some institutions in consolidated groups either lack tax allocation agreements with their holding companies or have agreements that do not have language conforming with section 23A or 23B. In particular, the agencies have reviewed tax allocation agreements that do not require a holding company in a consolidated group to transmit promptly the appropriate portion of a consolidated group’s tax refund to its subsidiary institution, resulting in the holding company failing to do so in some instances. Such inaction could adversely affect the safety and soundness of the subsidiary institutions because delayed access to funds could weaken an institution’s liquidity profile. Further, in its capacity as receiver for failed insured depository institutions, the FDIC has engaged in legal disputes regarding the ownership of tax refunds claimed by holding companies based on losses incurred by insured depository institutions in a consolidated group because the tax allocation agreements did not clearly acknowledge an agency relationship between an insured depository institution and its holding company. These disputes can reduce or prevent recoveries by the FDIC on behalf of failed insured depository institutions, consequently increase costs to the Deposit Insurance Fund, and thus could lead to higher FDIC deposit insurance premiums charged to solvent insured depository institutions.

I. Description of the Proposal

A. Scope of Application

The proposal would apply to all institutions that file federal and state income taxes in a consolidated group in which one or more of the institutions in the consolidated group is supervised by any of the agencies. A consolidated group refers to an institution, its parent, and any affiliates of the institution that join in the filing of a tax return as a single consolidated, combined, or unitary group. While the Interagency Policy Statement and 2014 Addendum only apply to insured depository institutions, the OCC has observed similar problematic tax practices at uninsured institutions it supervises. Therefore, the OCC proposes to apply relevant provisions of the proposal to uninsured institutions as well. In contrast, institutions that do not file federal and state income taxes as members of a consolidated group file separately and account for taxes on a separate entity basis. Therefore, an institution that files on a separate entity basis or in a group other than only of the institution and its subsidiaries would not be subject to the proposal.

4 12 CFR part 30 (OCC); 12 CFR part 208 (Board); 12 CFR part 364 (FDIC).
5 The functions of the Office of Thrift Supervision were transferred to the OCC and FDIC in accordance with Title III of the Dodd-Frank Wall Street Reform and Consumer Protection Act, Public Law 111–203, enacted July 21, 2010.
6 63 FR 64757 (Nov. 23, 1998).
The proposal also would not apply to an institution if the institution or its holding company is not subject to corporate income taxes at either the federal or state level, such as those that have elected S-Corporation status and do not have an obligation to pay corporate income taxes.11

Question [1]: Is the scope of application of the proposal appropriate, and what are the advantages and disadvantages of this scope?

B. Tax Allocation in a Holding Company Structure

As noted, a holding company and its bank subsidiaries have the ability to file a consolidated group income tax return. However, each depository institution is viewed as, and reports as, a separate legal and accounting entity for certain regulatory purposes, including for regulatory capital requirements. When a depository institution has subsidiaries of its own, the institution’s applicable income taxes on a separate entity basis include the taxes of the subsidiaries of the institution itself that are included with the institution in the consolidated group return. Accordingly, each depository institution’s applicable income taxes, reflecting either an expense or benefit, should be recorded in its books and records and reflected in the institution’s regulatory reports as if the institution had filed on a separate entity basis. Throughout this notice, the terms “separate entity” and “separate taxpayer” are used synonymously. Furthermore, the amount and timing of payments or refunds should not be in any case less favorable to the institution than if the institution were a separate taxpayer. Any practice that is not consistent with this principle may be viewed as an unsafe or unsound practice.

C. Tax Allocation Agreements and Key Terms

The proposal would require that all institutions that are subject to Federal or State tax and file tax returns as part of a consolidated group execute a tax allocation agreement that applies to and binds each member of the consolidated group. The proposal also would require that the tax allocation agreement be approved by the boards of directors of an institution subject to that tax allocation agreement and its holding company to ensure the agreement’s enforceability by and among the institutions in the consolidated group. Section 23A and 23B generally govern extensions of credit and certain other transactions between institutions and their affiliates, which include their holding companies. Section 23A places quantitative limits on covered transactions between an institution and its affiliates and imposes collateral requirements on certain covered transactions. Section 23B requires that transactions between an institution and its affiliates be made on terms and under circumstances that are substantially the same, or at least as favorable to the institution, as comparable transactions involving nonaffiliated companies or, in the absence of the comparable transactions, on terms and circumstances that would in good faith be offered to nonaffiliated companies. The tax allocation agreement requirements in the proposal are intended to be consistent with sections 23A and 23B.

As mentioned above, one of the principles of the Interagency Policy Statement is that a tax allocation agreement cannot result in terms less favorable to an institution than if the institution filed its income tax return on a separate entity basis (that is, not as part of a consolidated group). To achieve this result, tax allocation agreements subject to the proposal would be required to establish certain rights and obligations among institutions in the consolidated group. Adjustments for statutory tax considerations that may arise as long as the adjustments are made on a basis that is equitable and consistently applied among the holding company and other affiliates. Certain proposed key terms that would be required under the proposal for tax allocation agreements are explained below.

The proposal clarifies that, in terms of timing, an institution must be compensated for the use of its tax assets by the parent or other members of the consolidated group at the time the relevant tax asset is absorbed by the consolidated group. The proposal also clarifies that an institution must be promptly remitted any tax refund received (by the holding company) from a taxing authority that is based on the institution’s tax attributes.12 This is a common approach taken in tax sharing agreements, would promote safety and soundness by ensuring that an institution receives the benefit of its tax attributes, and is the approach least likely to create an extension of credit under section 23A.

Question [2]: While the agencies expect refunds would be transmitted to the institution as soon as possible, what are the advantages and disadvantages of the agencies requiring that an institution receive any tax refund based on its tax attributes within a specific timeframe from the date received? What would be an appropriate timeframe, and why?

Question [3]: What are the advantages and disadvantages of requiring that a parent or other members of a consolidated group compensate an institution for the use of its tax assets if and when the relevant tax asset is absorbed or used? How do these advantages and disadvantages compare to the advantages and disadvantages of other approaches including, for example, requiring that a parent or other members of the consolidated group compensate an institution for use of its tax assets if and when the institution would have been able to use the tax asset on a stand-alone basis?

Agency Relationship

As discussed in the preamble to the 2014 Addendum, there have been many legal disputes between holding companies and the FDIC, as receiver for failed insured depository institutions, regarding the ownership of tax refunds generated by the insured depository institutions. In reported decisions, some courts have found that tax refunds generated by an insured depository institution were the property of its holding company based on certain language contained in their tax allocation agreements that the courts have interpreted as creating a debtor-creditor relationship.13 As a result, the FDIC’s Deposit Insurance Fund has a material stake in the outcome of these legal disputes because they may lead to significant losses to creditors of the receiverships and, ultimately, the Deposit Insurance Fund.14 Therefore, the agencies are proposing that holding companies receive refunds due to institutions (if attributable to the tax attributes of an institution) in trust and promptly remit them to the institutions for two reasons. First, an institution’s prompt receipt of refunds that are based on the tax attributes created by that institution would allow management to

11 S-corporations are corporations that elect to pass corporate income, losses, deductions, and credits through to their shareholders for federal tax purposes under Subchapter S of the Internal Revenue Code. See 26 U.S.C. 1361 et seq.

12 If an overpayment of tax is applied as a credit toward estimated tax or other payments due, the tax refund would be considered received by the holding company when it files the return electing to apply the refund as a credit.


14 The Deposit Insurance Fund is funded primarily from deposit insurance assessments collected by the FDIC from insured depository institutions.
direct those funds for the immediate benefit of the institution that owns them, rather than allowing them to be retained for the benefit of the holding company. Second, receipt of the refund by the institution strengthens the institution’s liquidity profile as compared to a receivable from the holding company, and reduces the risk that a refund paid by the taxing authority to the holding company based on use of the institution’s tax attributes would be diverted to the holding company’s creditors or other affiliates. Under the proposal, a group’s tax allocation agreement must specify that an agency relationship exists between the institution and its holding company, including an affiliate of the institution that submits tax returns for the consolidated group with respect to tax refunds. The proposal would clarify that the subsidiary institution must enter into a tax allocation agreement that specifies that the institution owns any tax refund that is created from or results from its tax attributes. A group tax allocation agreement must state that the holding company receives any portion of the tax refund related to the subsidiary institution’s tax attributes in trust for the benefit of the subsidiary institution, including, for example, when a holding company receives a tax refund for a consolidated group, and some or all of the tax refund is due to tax attributes of a subsidiary institution. Further, under the proposal, the tax allocation agreement must provide that the holding company will remit the refund promptly to the subsidiary institution. Finally, to avoid any transactions that would prevent institutions from receiving tax refunds attributable to their tax attributes, the tax allocation agreement must provide that, notwithstanding any other transactions or agreements to the contrary, the institution must receive any tax refund attributable to its tax attributes.

**Tax Payments to a Holding Company**

The proposal also would address the timing and amount of tax payments made to a holding company by an institution in a consolidated group. Specifically, the proposal would require an institution to be a party to a tax allocation agreement that prohibits tax payments by the institution to its affiliates in excess of the current period tax obligation of the institution calculated on a separate entity basis. This requirement would reduce the risk that the holding company would use the institution’s funds to pay expenses or offset tax liabilities owed by the holding company or its other affiliates (other than the institution).

Remitting a current period tax expense payment to a holding company significantly in advance of when the payment would be due to the taxing authority if the institution filed on a stand-alone basis may treat the institution less favorably than if it were a separate taxpayer and, further, may be subject to section 23B. As a result, under the proposal, an institution must not remit its current period tax expense (or reasonably calculated estimated tax payment) earlier than when the institution would have been obligated to pay the taxing authority had it filed as a separate entity, based on the timeframe established by the taxing authority. Furthermore, the tax allocation agreement may permit the holding company to collect less than what the institution’s current period income tax obligation would have been, calculated on a separate entity basis. Provided the parent will not later require the institution to pay the remainder of the current tax liability, the amount of this unremitted liability should be accounted for as having been paid with a simultaneous capital contribution by the parent to the subsidiary. With respect to deferred tax liabilities (DTLs), however, a parent cannot forgive some or all of the institution’s DTL because the parent cannot legally relieve the subsidiary of a potential future obligation to the taxing authorities, especially if the subsidiary were to become a stand-alone entity. Furthermore, taxing authorities can collect some or all of a group’s liability from any of the group members if tax payments are not made when due.

**Payments and Hypothetical Tax Refunds From a Holding Company to an Institution**

The proposal would address the timing and amount of tax payments and hypothetical refunds to be received by an institution in a consolidated group from its holding company. For example, in a situation whereby the institution, as a separate entity, has a net operating loss (NOL) and other members of the group have taxable income, the consolidated group may utilize the institution’s tax loss to reduce the consolidated group’s current tax liability because consolidated tax return rules require the holding company to utilize the NOLs of members of the group to reduce the group’s taxable income and thus its current tax liability. As a result, in this situation, the holding company must reimburse the institution for the current use of its tax losses at the time the NOL is used. The institution must reflect the tax benefit of the loss in the current portion of its applicable income taxes in the period the loss is incurred.

Separately, the proposal would require that an institution must receive from its holding company no less than the tax refund amount it would have received had it filed tax returns on a separate entity basis. For example, this would apply if the institution has a tax loss and would have been able to carry back that loss to a previous year and obtain a tax refund from a taxing authority had it filed income tax returns on a separate entity basis, but there is no ability to obtain an actual refund because other members in the consolidated group had losses that offset the institution’s separate tax liability for the previous year(s). Similarly, if the institution makes quarterly tax payments, on an aggregate basis, in excess of its annual tax liability at year end and would obtain a tax refund had it filed on a separate entity basis, the proposal would require that the institution receive from the holding company no less than the tax refund amount the institution would have received as a separate entity from the taxing authority. Consistent with the principle that the amount and timing of tax payments within the consolidated group should be no less favorable to the institution than if it were a separate taxpayer, this proposed requirement would ensure that an institution receives the full benefit of its tax assets, such as any tax losses or tax credits it generates as a separate entity, instead of allowing those benefits to subsidize the activities of other affiliates, even if other affiliates in the consolidated group generate offsetting tax liabilities that reduce or eliminate a refund to the consolidated group. In this situation, the holding company would be required to remit the amount due to the institution within a reasonable period following the date the institution would have filed its own return on a separate entity basis. The prompt transmittal of funds from the holding company to the institution would permit management to use those funds for the benefit of the institution rather than of the holding company.  

[15] For example, if a refund is based on losses generated by or tax credits due to activities occurring at the subsidiary insured depository institution.  
[16] For example, this would preclude an institution entering into any side agreements purporting to allocate a tax refund attributable to its tax attributes to an affiliate.  
[17] Tax payments include both annual statutory tax payments and interim estimated payments required within an annual period.  
If a holding company were to fail to remit amounts or refunds owed to its subsidiary institution promptly, that inaction may be considered an extension of credit under section 23A. A holding company’s failure to remit amounts or refunds owed to its subsidiary institution also could be viewed as a constructive dividend from the institution to the holding company, which would be subject to other requirements under applicable regulations of the agencies.\(^\text{19}\)

Consolidated Tax Group Filings

Under the proposal, a tax allocation agreement must require that all materials including, but not limited to, returns, supporting schedules, workpapers, correspondence, and other documents relating to the consolidated federal income tax return and any consolidated, combined, or unitary group state or local return, which return includes the institution, be made available on demand to the institution or any successor during regular business hours and that this requirement must survive any termination of the tax allocation agreement. Access to this information would permit the institution, as well as agency examiners, to evaluate compliance with the proposal, including whether the institution and holding company are appropriately calculating the institution’s share of any tax liability and the institution’s refund for use of its tax attributes. This proposed approach also is consistent with how the Internal Revenue Service views the relationship of members in a consolidated group with respect to tax documentation.\(^\text{20}\)

With respect to insured depository institutions that enter receivership, the FDIC as receiver would be successor to depository institution with respect to various agreements, including any tax allocation agreement between an institution and its affiliates.\(^\text{21}\)

Question [4]: What are the advantages and disadvantages of the proposed requirements for a tax allocation agreement between an institution and its affiliates? Are there other requirements that the agencies should consider prescribing?

Question [5]: To what extent is the proposal consistent with current industry practices? To what extent does the proposal differ from current practice, what are the advantages and disadvantages of the proposal, relative to current industry practices?

D. Regulatory Reporting

Regardless of whether an institution files as part of a consolidated group or as a separate entity, the institution must prepare its regulatory reports\(^\text{22}\) on a separate entity basis, as specified in the current instructions for those reports.\(^\text{23}\)

The current instructions for the Consolidated Reports of Condition and Income (Call Reports) issued by the Federal Financial Institutions Examination Council require an institution that is a subsidiary of a holding company to calculate and report its current and deferred taxes on a separate entity basis. This existing reporting requirement would be unaffected by the proposal, which would establish a similar principle. The proposal would address transactions involving the purported purchase or sale of, or advancement of funds with respect to, an institution’s DTAs and DTLs (collectively, “deferred tax items”). A DTA or DTL is an estimate of an expected future tax benefit more likely than not to be realized or an expected future tax obligation to be paid, respectively. Deferred tax items are generated by and are intrinsically, and often legally, tied to the activities, assets, and liabilities of the institution. DTAs and DTLs represent the future effects on income taxes that result from temporary differences and carryforwards that exist at the end of a period.\(^\text{24}\)

The agencies would propose to revise the Call Report instructions to incorporate the treatment for deferred tax items under the proposal, as described in the Paperwork Reduction Act section of the SUPPLEMENTARY INFORMATION.

Temporary Difference Deferred Tax Items

Consistent with the separate entity basis reporting requirement, separating DTAs and DTLs from the associated assets or liabilities that gave rise to the deferred tax items would depart from one of the primary objectives related to accounting for income taxes, which is to recognize deferred tax items for the future tax consequences of events that have been recognized in an entity’s financial statements or tax returns.\(^\text{25}\)

The relevant accounting standards specifically state that a temporary difference refers to a difference between the tax basis of an asset or liability and its reported amount in the financial statements that will result in taxable or deductible amounts in future years when the reported amount of the asset or liability is recovered or settled, respectively.\(^\text{26}\)

More specifically, DTAs are the deferred tax consequences attributable to deductible temporary differences and carryforwards, while DTLs are the deferred tax consequences attributable to taxable temporary differences.\(^\text{27}\)

Based on the description of deferred tax items in ASC paragraph 740–10–05–7 and the uncertainty over the actual amounts at which deferred tax items will be settled or realized in future periods, temporary difference deferred tax items should remain on the balance sheet as long as the associated assets or liabilities that give rise to those deferred tax items remain on the balance sheet. Accordingly, an institution’s purchase, sale, or other transfer of deferred tax items arising from temporary differences is not acceptable under U.S. generally accepted accounting principles (GAAP) unless these items are transferred in connection with the transfer of the associated assets or liabilities. In the case of timing differences, it may be appropriate to transfer DTAs or DTLs resulting from a timing difference when the underlying asset or liability that created the future tax benefit or obligation is being purchased, sold, or transferred within the consolidated group.\(^\text{28}\)

In addition, when the DTA or DTL can be realized or is absorbed by the consolidated group in the current period tax expense or benefit.

\(^{22}\) The Consolidated Reports of Condition and Income (Call Reports) (FFIEC 031, FFIEC 041, and FFIEC 051; OMNI No. 1557–0081 (OCC), 7100–0036 (Board), and 3064–0052 (FDIC)).

\(^{23}\) See e.g., Internal Revenue Manual 11.3.2.4.4 (09–17–2020).

\(^{24}\) See 26 U.S.C. 6103(e).

\(^{25}\) See 21 CFR part 5, subpart E, and 5.55 (OCC); 12 CFR part 5, subpart E, and 5.55 (OCC); 7100–0036 (OCC), 7100–0036 (Board), and 3064–0052 (FDIC).

\(^{26}\) See 12 CFR part 5, subpart E, and 5.55 (OCC).

\(^{27}\) See 12 CFR 303.241 (FDIC).

\(^{28}\) See 26 U.S.C. 6103(e).
period tax return, it would be appropriate to settle or recover the DTA or DTL, respectively.\textsuperscript{29} Therefore, as described in the Paperwork Reduction Act section of the SUPPLEMENTARY INFORMATION, the agencies plan to revise the Call Report instructions to clarify that transfers of temporary difference deferred tax items as described above are not consistent with GAAP.

Operating Loss and Tax Credit Carryforward DTAs

Carryforwards are deductions or credits that cannot be utilized on the tax return during a year that may be carried forward to reduce taxable income or taxes payable in a future year.\textsuperscript{30} Thus, in contrast to temporary differences, carryforwards do not arise directly from book-tax basis differences associated with particular assets or liabilities.

GAAP does not require a single allocation method for income taxes when members of a consolidated group issue separate financial statements.\textsuperscript{31} The commonly applied “separate-return” method, which would reflect DTAs for NOLs and tax credit carryforwards on a separate return basis, would meet the relevant criteria.\textsuperscript{32} Other systematic and rational methods that are consistent with the broad principles established by ASC 740 are also acceptable.

The FDI Act provides that the accounting principles applicable to reports or statements required to be filed with the agencies by insured depository institutions should result in reports of condition that accurately reflect the capital of such institutions, facilitate effective supervision of the institutions, and facilitate prompt corrective action to resolve the institutions at the least cost to the Deposit Insurance Fund.\textsuperscript{33} The FDI Act also provides that, in general, the accounting principles applicable to Call Reports must be uniform and consistent with GAAP.\textsuperscript{34} However, this section permits the agencies to adopt alternate accounting principles for regulatory reporting that are no less stringent than GAAP, if the agencies find that application of GAAP fails to meet any of the objectives stated above.\textsuperscript{35}

The agencies are aware of instances in which institutions have engaged in transactions with affiliates in a consolidated group to purchase, sell, or otherwise transfer deferred tax items, specifically DTAs, other than current period tax losses useable in the consolidated group’s tax return for the current period, which would otherwise be NOL carryforward DTAs for the institution. The agencies’ regulatory capital rule requires the deduction from common equity tier 1 capital of NOLs and tax credit carryforward DTAs, net of any related valuation allowances and net of DTLs.\textsuperscript{36} Because of this treatment, an institution may attempt to derecognize its DTAs for NOLs or tax credit carryforwards on its separate-entity regulatory reports prior to the time when the carryforward benefits are absorbed by the consolidated group by selling or otherwise transferring these DTAs to affiliates, particularly affiliates not subject to the agencies’ regulatory capital rule, potentially overstating capital. While an institution may receive cash from affiliates in exchange for these transfers, the transfer may be reversible and not provide the same quality of regulatory capital as cash in the form of a capital contribution from a holding company.

Second, there are significant valuation uncertainties associated with deferred tax items, particularly DTAs for NOLs or tax credit carryforwards, when the underlying tax attributes cannot be used or absorbed by the group in the current period. Even though deferred tax items are measured in accordance with the enacted tax rates expected to apply when these items are settled or realized, the actual amounts at which these items will be settled or realized will be determined using the tax rates in effect in the future periods when settlement or realization occurs. In cases where such transactions have been observed, the cash settlement for the deferred tax assets is based on tax rates at the time of the settlement between the entities.

However, the actual tax benefit realized by the consolidated group may ultimately differ from that amount, depending upon tax rates at the time the relevant deferred tax asset is absorbed by the consolidated group. As a result, an institution that sells or purchases DTAs for NOLs or tax credit carryforwards may receive significantly less than, or overpay for, these DTAs in relation to the amounts at which these DTAs ultimately would have been realized had they not been transferred, which also raises concerns under section 23B to the extent that the insured depository institution is placed in a position less favorable than if it filed its income tax return on a separate entity basis.\textsuperscript{37} For example, changes in federal tax laws, such as a change in the corporate income tax rate or provisions related to NOL carryback periods, can significantly affect the value of associated DTAs.\textsuperscript{38}

For these reasons, the agencies have concluded that the derecognition by insured depository institutions of DTAs for NOL or tax credit carryforwards on their separate-entity regulatory reports before the period in which they are absorbed by the consolidated group raises significant concerns and would not meet the objectives described in 12 U.S.C. 1831a(a)(1).\textsuperscript{39} Specifically, the agencies find that derecognizing DTAs for NOLs or tax credit carryforwards in the Call Report in such circumstances may not accurately reflect an institution’s capital and may increase the cost to the Deposit Insurance Fund if insured depository institutions that have engaged in these transactions subsequently fail after the DTAs were sold for less than their value, and the FDIC as receiver is unable to fully recover the value of these DTAs under applicable tax laws.

Consistent with this finding, as described in the Paperwork Reduction Act section of the SUPPLEMENTARY INFORMATION, the agencies expect to propose to revise the Call Report instructions to clarify that an institution must not derecognize DTAs for NOLs or tax credit carryforwards on its separate-entity regulatory reports prior to the time when such carryforwards are absorbed by the consolidated group.

III. Incorporation of the Proposal as an Appendix to the Agencies’ Safety and Soundness Rules

The agencies would adopt the proposal under the procedures described in section 39 of the FDI Act.\textsuperscript{40}

\textsuperscript{29}Under GAAP, a deferred tax item generally becomes a current tax item when it is expected to be used to calculate estimated taxes payable or receivable on tax returns for current and prior years. ASC Topic 740 ¶ 740–10–25–2(a) (Fin. Acct. Standards Bd. 2019).

\textsuperscript{30}Id. ¶ 740–10–20.

\textsuperscript{31}See id. ¶ 740–10–30–27 (referring to ASC subtopic 740–10).

\textsuperscript{32}Id.

\textsuperscript{33}12 U.S.C. 1831a(a)(1).

\textsuperscript{34}12 U.S.C. 1831a(a)(2)(A).

\textsuperscript{35}12 U.S.C. 1831a(a)(2)(B).

\textsuperscript{36}See 12 CFR 3.22(a)(3) (OCC); 12 CFR 217.22(a)(3) (Board); 12 CFR 324.22(a)(3) (FDIC).

\textsuperscript{37}This circumstance also may raise concerns under section 23A, to the extent that monies owed the insured depository institution from an affiliate as a result of these changed amounts are not paid promptly to the insured depository institution and may be viewed as extensions of credit subject to the requirements of section 23A.


\textsuperscript{39}The establishment of valuation allowances for DTAs for NOL and tax credit carryforwards when required in accordance with U.S. GAAP is not a derecognition event.

\textsuperscript{40}12 U.S.C. 1831p–1.
The OCC would also adopt the proposal for uninsured institutions under its general rulemaking authority. 41

Guidelines or standards adopted under section 39 through a rulemaking are accorded special enforcement treatment under that statute. The agencies each have procedural rules that implement the enforcement remedies for guidelines prescribed by section 39. Under procedural provisions in these rules, each agency would be authorized to require an institution that intends to participate in a consolidated tax filing group and does not have an acceptable tax allocation agreement to develop a plan to implement an acceptable agreement consistent with the proposal or to be subject to enforcement actions.

Each agency proposes to incorporate the proposal as an appendix to its relevant safety and soundness rule (located in 12 CFR part 30 (OCC), 12 CFR part 208 (Board) and part 364 (FDIC)).

IV. Impact Analysis

Scope of Application

As of the most recent data, the agencies estimate that 2,604 supervised institutions (including 2,581 insured institutions and 23 uninsured OCC-chartered institutions) would be subject to the proposal. 42 Covered institutions must be part of a consolidated group and obligated to pay federal and state income taxes. These covered institutions represent 51 percent of all institutions supervised by the agencies, and they hold over 93 percent of total assets of all institutions supervised by the agencies. 43

The agencies do not have, nor are they aware of, data that indicates whether any particular institution files taxes as part of a consolidated group, whether the institutions have tax allocation agreements with their holding companies, or whether the institutions have agreements that would conform with the proposal. Therefore, it is difficult to accurately estimate the number of institutions that would be potentially affected by the proposal. However, in their supervision of institutions, the agencies have observed that only a small number of institutions in consolidated groups lack tax allocation agreements with their holding companies, have agreements that do not have language conforming with section 23A or 23B, or engage in transfers of DTAs or DTLs that are inconsistent with the separate entity basis reporting requirement. Overall, due to the fact that the agencies expect most covered institutions to already be in compliance with the proposal, the expected costs of the proposal are likely to be small.

The potential benefits and costs discussed below generally apply to the supervised institutions, their affiliates, and holding companies that are not already implementing principles from the existing non-codified guidance.

Benefits

There are three key benefits of the proposal. First, in some situations, the proposal would strengthen the safety and soundness of covered insured and uninsured institutions by ensuring that consolidated tax filing arrangements and practices are not adverse to their interests. Second, in some circumstances, the proposal would reduce the FDIC’s resolution-related costs for covered insured institutions. Third, under some circumstances, the proposal would result in institutions more accurately reflecting their common equity tier 1 capital. These issues are discussed in more detail below.

The proposal could strengthen the safety and soundness of covered institutions. In particular, to the extent that covered institutions, their affiliates, and holding companies are not already implementing principles from the existing non-codified guidance, it may be possible to transfer tax credits out of the consolidated group at a price. This situation, the transfer weakens the safety and soundness of the institution. The proposal would limit such transfers, increasing the safety and soundness of the covered institution. The effect of the proposal on safety and soundness of all members of a consolidated group can be more nuanced. For example, when the parent or affiliate entity retains the transfers of tax credits out of the covered institution, the potential reduction of the safety and soundness of the covered institution may be accompanied by a corresponding increase in safety and soundness at the holding company or other affiliates.

To the extent there are covered institutions that currently engage in transactions involving NOL and tax credit carryforward DTAs within a consolidated group, the proposal could result in fewer transfers of such deferred tax items and the covered institutions may be more likely to receive equitable treatment. Furthermore, if the proposal were adopted, the covered institutions would retain access to the appropriate share of funds as they avoid being underpaid, or overpaying, in the course of the transactions related to deferred tax items.

By requiring a tax allocation agreement, and clear language in such agreements about an agency relationship, the proposal could reduce the cost of resolving failed insured depository institutions. In particular, to the extent that covered institutions, their affiliates, and holding companies are not already implementing principles from the existing non-codified guidance, it is possible to transfer tax credits out of the insured depository institution and into a parent or affiliate thereby reducing the value of the assets of the insured depository institution and raising the cost of resolving failed banks. Prompt receipt of tax refunds and appropriate timing and payment of tax obligations based on terms and provisions in a tax allocation agreement would, in some situations, result in the insured depository institution being better capitalized when entering receivership, and allow the FDIC to avoid litigation over the consolidated group’s tax refunds and reduce uncertainties over any tax liabilities. By reducing the insured depository institution’s failure resolution costs, including the related litigation and other procedural costs of resolution, the proposal would allow the FDIC to more efficiently resolve failed insured depository institutions, carry out its mission in a more cost-effective manner, and reduce future costs to the Deposit Insurance Fund.

As described in the Operating Loss and Tax Credit Carryforward DTAs section of the Supplementary Information, the agencies are aware of instances in which institutions have engaged in transactions with affiliates in a consolidated group to purchase, sell, or otherwise transfer deferred tax items, specifically DTAs, other than current period tax losses useable in the consolidated group’s tax return for the current period, which would otherwise be NOL and tax credit carryforward DTAs for the covered institution. The proposal clarifies regulatory reporting requirements to help ensure that an institution recognizes all its individual deferred tax items, including those arising from temporary timing.

42 Call Report data, September 30, 2020. The agencies estimate the covered institutions by subtracting the 1,537 insured institutions and 3 uninsured OCC-chartered institutions supervised by the agencies that are subsidiaries of bank or thrift holding companies supervised by the Board, are registered as Subchapter S corporations, and would not be affected by the adoption of the proposal; from the 4,118 insured institutions and 26 uninsured OCC-chartered institutions supervised by the agencies that are subsidiaries of bank or thrift holding companies supervised by the Board, respectively.
43 Id.
An institution cannot report such items on its Call Reports separately from the asset or liability that gave rise to it, except under certain circumstances that are appropriate under GAAP.\footnote{GAAP does not prohibit the purchase, sale, or transfer of deferred tax items of the institutions within the consolidated group if the institution would not be entitled to a current refund on a separate entity basis, or if the purchase, sale, or transfer of deferred tax items occurs in conjunction with the purchase, sale, or transfer of the assets or the liabilities giving rise to those items.} The proposal also addresses accounting principles for regulatory reporting for institutions’ transactions involving the purported purchase or sale of, or advancement of funds with respect to its NOLs and tax credit carryforward DTAs\footnote{See 12 CFR 3.22(a)(3) (OCC); 12 CFR 217.22(a)(3) (Board); 12 CFR 324.2(a)(3) (FDIC).} to other affiliates in the consolidated group or the holding company. The agencies’ regulatory capital rule requires the deduction from common equity tier 1 capital of NOL and tax credit carryforward DTAs, net of any related valuation allowances and net of DTLs.\footnote{In contrast to temporary differences, carryforwards do not arise directly from book-tax basis differences associated with particular assets or liabilities.} Thus, by clarifying the regulatory reporting requirements, the proposal would more accurately reflect institutions’ common equity tier 1 capital.

Costs

To the extent the supervised institutions, their affiliates, and holding companies are not already implementing principles from the existing non-codified guidance, there are two primary costs of the proposal. First, parent companies and affiliates of covered institutions could lose some discretion over the timing, magnitude, and direction of cash flows between members of the group. Second, there would be regulatory costs associated with preparing agreements as well as ongoing compliance or reporting expenses. These issues are discussed in more detail below.

Under the proposal, holding companies would be required to remit tax refunds to their subsidiary institutions, if the relevant subsidiary’s tax assets or carryforwards do not arise directly from book-tax basis differences associated with particular assets or liabilities. Hence, if the institution’s tax assets or carryforwards do not arise directly from book-tax basis differences associated with particular assets or liabilities, the institution must be compensated at such time as when the consolidated group has benefited from the use of its assets. The proposal would also enable institutions to avoid scenarios whereby they are required to submit tax payments to their holding company either materially before the holding company must remit taxes to the tax authority or greater than their actual obligations. The proposal could also result in certain holding companies ceasing to retain tax refunds and transmitting refunds to their subsidiary institutions, or no longer receiving funds well in advance of the obligated payment date.

Mandatory tax allocation agreements with terms outlined in the proposal would reduce discretion over the timing, magnitude, or direction of certain cash flows between members of the group. This may reduce the flexibility of the holding company to allocate funds between members of the consolidated group, potentially resulting in reduced growth or profitability.

To the extent the supervised institutions, their affiliates, and holding companies are not already implementing principles from the existing non-codified guidance, they could incur regulatory costs in order to enter into tax allocation agreements that comply with the requirements in the proposal. While these costs are uncertain, they are likely to be relatively small given that in the agencies’ experience only a small number of institutions do not have a tax allocation agreement or, have a tax allocation agreement that does not conform with the proposal. Further, the Paperwork Reduction Act section of the SUPPLEMENTARY INFORMATION describes relatively small recordkeeping, reporting and disclosure costs associated with the proposal for covered entities.

Overall, due to the fact that the agencies expect most covered institutions to already be in compliance with the proposal, the expected costs are likely to be small. The proposal would increase the safety and soundness of institutions not implementing the principles in the Interagency Policy Statement and the 2014 Addendum and reduce litigation costs to the Deposit Insurance Fund.

V. Administrative Law Matters

A. Paperwork Reduction Act

Certain provisions of the proposal contain “collection of information” requirements within the meaning of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501–3521) (PRA). In accordance with the requirements of the PRA, the agencies may not conduct or sponsor, and a respondent is not required to respond to, an information collection unless it displays a currently valid Office of Management and Budget (OMB) control number. The agencies will request new control numbers for this information collection. The information collection requirements contained in this proposal have been submitted to OMB for review and approval by the OCC and FDIC under section 3507(d) of the PRA (44 U.S.C. 3507(d)) and §1320.11 of the OMB’s implementing regulations (5 CFR part 1320). The Board reviewed the proposal under the authority delegated to the Board by OMB.

Comments are invited on:

a. Whether the collections of information are necessary for the proper performance of the agencies’ functions, including whether the information has practical utility;

b. The accuracy or the estimate of the burden of the information collections, including the validity of the methodology and assumptions used;

c. Ways to enhance the quality, utility, and clarity of the information to be collected;

d. Ways to minimize the burden of the information collections on respondents, including through the use of automated collection techniques or other forms of information technology; and
e. Estimates of capital or startup costs and costs of operation, maintenance, and purchase of services to provide information.

All comments will become a matter of public record. Comments on aspects of this notice that may affect reporting, recordkeeping, or disclosure requirements and burden estimates should be sent to the addresses listed in the ADDRESSES section of this document. A copy of the comments may also be submitted to the OMB desk officer for the agencies by mail to U.S. Office of Management and Budget, 725 17th Street NW, #10235, Washington, DC 20503; facsimile to (202) 395–6974; or email to oira_submission@omb.eop.gov, Attention, Federal Banking Agency Desk Officer.

(1) New Information Collection

OCC


The proposal prescribes PRA recordkeeping requirements for tax allocation agreements that involve institutions supervised by the agencies. Each institution that is part of a consolidated group must enter into a written tax allocation agreement with its holding company. The respective boards of directors of each institution and its parent holding company must approve the tax allocation agreement.

Current Actions

In addition, the proposal would require changes to the instructions for the Call Reports (OMB No. 1557–0081 (OCC), 7100–0036 (Board), and 3064–0052 (FDIC)), which will be addressed in a separate Federal Register notice.

B. Regulatory Flexibility Act Analysis

OCC: In general, the Regulatory Flexibility Act (RFA), 5 U.S.C. 601 et seq., requires an agency, in connection with a proposed rule, to prepare and make available for public comment an initial Regulatory Flexibility Analysis describing the impact of the rule on small entities (defined by the Small Business Administration (SBA) for purposes of the RFA to include commercial banks and savings institutions with total assets of $600 million or less and trust companies with total assets of $41.5 million or less) or to certify that the proposed rule would not have a significant economic impact on a substantial number of small entities. The OCC currently supervises approximately 745 small entities, of which 281 may be within the scope of the proposed rule. The OCC classifies the economic impact on an individual small entity as significant if the total estimated impact in one year is greater than 5 percent of the small entity’s total annual salaries and benefits or greater than 2.5 percent of the small entity’s total non-interest expense. The OCC estimates the cost of implementing or revising the tax allocation agreements under the proposed rule would be less than $1,000 per institution and not result in a significant economic impact to these entities. Therefore, the OCC certifies that the proposal, if adopted as final, would not have a significant economic impact on a substantial number of small entities.

Board: The Board is providing an initial regulatory flexibility analysis with respect to this proposal. The Regulatory Flexibility Act, 5 U.S.C. 601 et seq. (RFA), requires an agency to consider whether the rules it proposes will have a significant economic impact on a substantial number of small entities. In connection with a proposed rule, the RFA requires an agency to prepare an initial Regulatory Flexibility Analysis describing the impact of the rule on small entities or to certify that the proposed rule would not have a significant economic impact on a substantial number of small entities. An initial regulatory flexibility analysis must contain (1) a description of the reasons why action by the agency is being considered; (2) a succinct statement of the objectives of, and legal basis for, the proposed rule; (3) a description of, and, where feasible, an estimate of the number of small entities to which the proposed rule will apply; (4) a description of the projected reporting, recordkeeping, and other compliance requirements of the proposed rule, including an estimate of the classes of small entities that will be subject to the requirement and the type of professional skills necessary for preparation of the report or record; (5) an identification, to the extent practicable, of all relevant Federal rules which may duplicate, overlap with, or conflict with the proposed rule; and (6) a description of any significant alternatives to the proposed rule which accomplish its stated objectives.

The Board has considered the potential impact of the proposal on small entities in accordance with the RFA. Based on its analysis and for the reasons stated below, the proposal is not expected to have a significant economic impact on a substantial number of small entities. Nevertheless, the Board is publishing and inviting comment on this initial regulatory flexibility analysis. The Board will consider whether to conduct a final regulatory flexibility analysis after any comments received during the public comment period have been considered.

Reasons Why Action Is Being Considered by the Board

In their supervision of institutions, the agencies have observed that certain institutions in consolidated groups either lack tax allocation agreements with their holding companies or have agreements that fail to ensure that the institutions receive the benefit of their tax attributes, which could negatively impact the safety and soundness of these institutions. Although there is existing interagency guidance relating to tax allocation agreements, this guidance is nonbinding.

The Objectives of, and Legal Basis for, the Proposal

The proposal would codify and make enforceable (with certain modifications) earlier guidance documents relating to tax allocation agreements. The proposal is intended to (1) ensure that state member banks that file taxes as part of a consolidated group have tax allocation agreements in place, and (2) specify certain mandatory terms for such agreements. The proposal would also clarify that an institution must not derecognize DTA’s for NOLs or tax credit carryforwards on its separate-entity regulatory reports prior to the time

Number of Respondents: 579.
Estimated average hours per response: Recordkeeping Section 30 Appendix F Initial setup—20.
Estimated annual burden hours: Recordkeeping Section 30 Appendix F Ongoing—1.
Estimated annual burden hours: Recordkeeping Section 30 Appendix F Initial setup—11,580.
Estimated annual burden hours: Recordkeeping Section 30 Appendix F Ongoing—579.
Total—12,159.

OMB control number: 7100–NEW.
Frequency: Event generated, annual.
Affected Public: State member banks.
Number of Respondents: 435.
Estimated average hours per response: Recordkeeping Section 208 Appendix D–3 Initial setup—20.
Estimated annual burden hours: Recordkeeping Section 208 Appendix D–3 Ongoing—1.
Estimated annual burden hours: Recordkeeping Section 208 Appendix D–3 Initial setup—8,700.
Estimated annual burden hours: Recordkeeping Section 208 Appendix D–3 Ongoing—435.

FDIC

OMB control number: 3064–NEW.
Frequency: Event generated, annual.
Affected Public: State nonmember banks and state savings associations.
Number of Respondents: 1,590.
Estimated average hours per response: Recordkeeping Section 364 Appendix C Initial setup—20.
Estimated annual burden hours: Recordkeeping Section 364 Appendix C Ongoing—1.
Estimated annual burden hours: Recordkeeping Section 364 Appendix C Initial setup—31,800.
Estimated annual burden hours: Recordkeeping Section 364 Appendix C Ongoing—1,590.

Current Actions: The proposal prescribes PRA recordkeeping requirements for tax allocation agreements that involve institutions supervised by the agencies. Each institution that is part of a consolidated group must enter into a written tax allocation agreement with its holding company. The respective boards of directors of each institution and its parent holding company must approve the tax allocation agreement.

(2) FFIEC 031, FFIEC 041, and FFIEC 051

In general, the Regulatory Flexibility Act (RFA), 5 U.S.C. 601 et seq., requires an agency, in connection with a proposed rule, to prepare and make available for public comment an initial Regulatory Flexibility Analysis describing the impact of the rule on small entities (defined by the Small Business Administration (SBA) for purposes of the RFA to include commercial banks and savings institutions with total assets of $600 million or less and trust companies with total assets of $41.5 million of less) or to certify that the proposed rule would not have a significant economic impact on a substantial number of small entities. The OCC currently supervises approximately 745 small entities, of which 281 may be within the scope of the proposed rule. The OCC classifies the economic impact on an individual small entity as significant if the total estimated impact in one year is greater than 5 percent of the small entity’s total annual salaries and benefits or greater than 2.5 percent of the small entity’s total non-interest expense. The OCC estimates the cost of implementing or revising the tax allocation agreements under the proposed rule would be less than $1,000 per institution and not result in a significant economic impact to these entities. Therefore, the OCC certifies that the proposal, if adopted as final, would not have a significant economic impact on a substantial number of small entities.

Board: The Board is providing an initial regulatory flexibility analysis with respect to this proposal. The Regulatory Flexibility Act, 5 U.S.C. 601 et seq. (RFA), requires an agency to consider whether the rules it proposes will have a significant economic impact on a substantial number of small entities. In connection with a proposed rule, the RFA requires an agency to prepare an initial Regulatory Flexibility Analysis describing the impact of the rule on small entities or to certify that the proposed rule would not have a significant economic impact on a substantial number of small entities. An initial regulatory flexibility analysis must contain (1) a description of the reasons why action by the agency is being considered; (2) a succinct statement of the objectives of, and legal basis for, the proposed rule; (3) a description of, and, where feasible, an estimate of the number of small entities to which the proposed rule will apply; (4) a description of the projected reporting, recordkeeping, and other compliance requirements of the proposed rule, including an estimate of the classes of small entities that will be subject to the requirement and the type of professional skills necessary for preparation of the report or record; (5) an identification, to the extent practicable, of all relevant Federal rules which may duplicate, overlap with, or conflict with the proposed rule; and (6) a description of any significant alternatives to the proposed rule which accomplish its stated objectives.

The Board has considered the potential impact of the proposal on small entities in accordance with the RFA. Based on its analysis and for the reasons stated below, the proposal is not expected to have a significant economic impact on a substantial number of small entities. Nevertheless, the Board is publishing and inviting comment on this initial regulatory flexibility analysis. The Board will consider whether to conduct a final regulatory flexibility analysis after any comments received during the public comment period have been considered.

Reasons Why Action Is Being Considered by the Board

In their supervision of institutions, the agencies have observed that certain institutions in consolidated groups either lack tax allocation agreements with their holding companies or have agreements that fail to ensure that the institutions receive the benefit of their tax attributes, which could negatively impact the safety and soundness of these institutions. Although there is existing interagency guidance relating to tax allocation agreements, this guidance is nonbinding.

The Objectives of, and Legal Basis for, the Proposal

The proposal would codify and make enforceable (with certain modifications) earlier guidance documents relating to tax allocation agreements. The proposal is intended to (1) ensure that state member banks that file taxes as part of a consolidated group have tax allocation agreements in place, and (2) specify certain mandatory terms for such agreements. The proposal would also clarify that an institution must not derecognize DTA’s for NOLs or tax credit carryforwards on its separate-entity regulatory reports prior to the time
when such carryforwards are absorbed by the consolidated group.

The Board proposes to adopt the proposal pursuant to sections 39 and 37 of the FDI Act. Section 39 of the FDI Act authorizes the Board to prescribe standards for safety and soundness by regulation or guideline. Section 37 of the FDI Act permits the Board to prescribe an accounting principle applicable to insured depository institutions that is no less stringent than generally accepted accounting principles. The guidelines promulgated under the proposal would be incorporated as an appendix to the Interagency Guidelines Establishing Standards for Safety and Soundness contained in 12 CFR part 208.

Estimate of the Number of Small Entities

The proposal would apply to state member banks. According to Call Reports, there are approximately 455 state member banks that are small entities for purposes of the RFA. Of these entities are registered as Subchapter S corporations, would pay no tax at the business level, and therefore would not be impacted by the proposal. Additionally, the majority of potentially impacted small entities are likely already party to a tax allocation agreement, as discussed in existing guidance, and thus the number of small entities impacted by the proposal’s requirements is likely to be considerably smaller.

Description of the Compliance Requirements of the Proposal

The proposal would require state member banks to enter into tax allocation agreements containing certain specified terms. To the extent that institutions are not already party to compliant tax allocation agreements, they could incur administrative costs to enter into tax allocation agreements that comply with this proposal, or to modify existing tax allocation agreements to be compliant, which would require legal and accounting skills. It is likely that the majority of potentially impacted small entities are already party to a tax allocation agreement, as discussed in existing guidance. The majority of these agreements are likely either compliant with the proposal or could be made compliant with relatively minor modifications. Board staff estimates that impacted Board-supervised small entities will spend 20 hours establishing or modifying a tax allocation agreement, at an hourly cost of $115.00. The estimated aggregate initial administrative costs of the proposal to Board-supervised small entities amount to $556,600.51 and ongoing costs are expected to be small when measured by small banks’ annual expenses. In addition, the proposal may also reduce existing flexibility around the timing of compensation from holding companies to state member banks for the use of their tax attributes. The Board does not anticipate any material impact on the overall tax liability of consolidated groups as a result of the proposal.

Consideration of Duplicative, Overlapping, or Conflicting Rules and Significant Alternatives to the Proposal

The Board has not identified any federal statutes or regulations that would duplicate, overlap, or conflict with the proposal. The Board has considered the alternative of maintaining or amending existing interagency guidance but considers the proposal to be a more appropriate alternative.

FDIC:

The RFA generally requires that, in connection with a proposed rulemaking, an agency prepare and make available for public comment an initial regulatory flexibility analysis describing the impact of the proposed rule on small entities. However, a regulatory flexibility analysis is not required if the agency certifies that the rule will not have a significant economic impact on a substantial number of small entities.

The SBA has defined “small entities” to include banking organizations with total assets of less than or equal to $600 million that are independently owned and operated or owned by a holding company with less than or equal to $600 million in total assets. Generally, the FDIC considers a significant effect to be a quantified effect in excess of 5 percent of total annual salaries and benefits per institution, or 2.5 percent of total non-interest expenses. The FDIC believes that effects in excess of these thresholds typically represent significant effects for FDIC-supervised institutions. The FDIC does not believe that the proposed rule, if adopted, will have a significant economic effect on a substantial number of small entities. However, some expected effects of the proposed rule are difficult to assess or accurately quantify given current information, therefore the FDIC has included an Initial Regulatory Flexibility Act Analysis in this section.

Reasons Why This Action Is Being Considered

As previously discussed, in its supervision of institutions, the FDIC has observed that some institutions and affiliated entities in consolidated groups lack tax allocation agreements with their holding companies, have agreements that do not have language conforming with section 23A or 23B, or engage in the sale or transfer of DTAs or DTLs with other entities in a consolidated tax filing group that is inconsistent with the separate entity basis reporting requirement. In particular, the FDIC has reviewed tax allocation agreements that do not require holding companies in a consolidated group to promptly transmit the appropriate portion of a consolidated group’s tax refund to their subsidiary institutions, resulting in some holding companies failing to do so in some instances. The FDIC believes that such action could adversely affect the safety and soundness of the subsidiary institutions. Further, in its capacity as receiver for failed insured depository institutions, the FDIC has engaged in legal disputes regarding the ownership of tax refunds claimed by the holding company based on losses incurred by insured depository institutions in a consolidated group due to the sale of DTA or DTL.
to tax allocation agreements that did not clearly acknowledge an agency relationship between the insured depository institution and its holding company. These disputes can reduce or prevent recoveries by the FDIC on behalf of failed insured depository institutions, which increases the cost to the Deposit Insurance Fund and thus leads to higher FDIC deposit insurance premiums charged to solvent insured depository institutions.

Policy Objectives

The primary objective of the proposal is to further clarify the relationship between institutions supervised by the agencies (including insured depository institutions and uninsured institutions) and affiliates or parent holding companies who are in a consolidated tax filing group with respect to the treatment of tax obligations, tax refunds and related intra-group transactions. Tax allocation agreements between institutions and their holding companies and other affiliates are important safeguards to ensure compliance by institutions with sections 23A and 23B and certain other agency regulations that ensure that holding companies in a consolidated group promptly transmit the appropriate portion of a consolidated group’s tax refund to their subsidiary institutions.

Legal Basis

The FDIC proposes to adopt the guidelines pursuant to sections 39 and 37 of the FDI Act. Section 39 prescribes different consequences depending on whether the agency issues regulations or guidelines. Under these provisions, an agency may require an institution that intends to participate in a consolidated tax filing group to develop a plan to implement an acceptable agreement consistent with the proposal or be subject to enforcement actions. For a more detailed discussion of the proposal please refer to Section III entitled “Incorporation of the Guidelines as an Appendix to the Agencies’ Safety and Soundness Rules”.

The Proposed Rule

The FDIC proposes to incorporate the guidelines as an appendix to its safety and soundness rule in part 364. The FDIC has procedural rules in part 364 that implement the enforcement remedies prescribed by section 39. Under these provisions, the FDIC may require an institution that does not have an acceptable tax allocation agreement to develop a plan to implement an acceptable agreement consistent with the proposal or be subject to enforcement actions. For a more detailed discussion of the proposal please refer to Section II entitled “Description of the Proposal” and Section III entitled “Incorporation of the Guidelines as an Appendix to the Agencies’ Safety and Soundness Rules”.

Small Entities Affected

As of the most recent data, the FDIC supervises 3,245 depository institutions of which 2,434 are “small” entities according to the terms of the RFA. Covered institutions must be part of a consolidated group, and subject to and obligated to pay federal and state income tax. The FDIC estimates that 1,008 small, FDIC-supervised institutions will be subject to the proposal. These covered institutions represent 41 percent of all small institutions supervised by the FDIC, and they hold over 47 percent of total assets of all small institutions supervised by the FDIC.

As described in the Impact Analysis section of the SUPPLEMENTARY INFORMATION, it is difficult to accurately estimate the number of small FDIC-supervised institutions that would be potentially affected by the proposal. Specifically, the FDIC does not have data that indicates whether or not any particular small FDIC-supervised institutions have tax allocation agreements with their holding companies. The agencies have agreements that do not have language conforming with section 23A or 23B. However, the FDIC believes that the number of small, FDIC-supervised depository institutions that will be directly affected by the proposal is likely to be small, given that in the agencies’ supervisory experience only a small number of institutions do not currently have tax allocation agreements, have existing tax allocation agreements that do not have language conforming with section 23A or 23B, or have agreements that do not have language with other entities.

Expected Effects

The potential benefits and costs summarized below generally apply to the small FDIC-supervised institutions, their affiliates, and holding companies that are not already implementing principles from the existing non-codified guidance.

Benefits

There are three key benefits of the proposal. First, in some situations, the proposal would strengthen the safety-and-soundness of covered small FDIC-supervised institutions by ensuring that consolidated tax filing arrangements and practices are not adverse to their interests. Second, in some circumstances, the proposal would reduce the FDIC’s resolution-related costs. Third, under some circumstances, the proposal would result in small FDIC-supervised institutions more accurately reflecting their common equity tier 1 capital. These benefits are discussed in more detail in the Impact Analysis section of the SUPPLEMENTARY INFORMATION.

Costs
To the extent the small, FDIC-supervised institutions, their affiliates, and holding companies are not already implementing principles from the existing non-codified guidance, there are two primary costs of the proposal. First, covered small FDIC-supervised institutions, their parent companies, and affiliates could lose some discretion over the timing, magnitude, and direction of cash flows between members of the group. Second, there would be regulatory costs associated with preparing agreements as well as ongoing compliance or reporting expenses. These costs are discussed in more detail in the Impact Analysis section of the SUPPLEMENTARY INFORMATION.

Overall, due to the fact that the FDIC expects most small FDIC-supervised institutions to already be in compliance with the proposal, the expected effects are likely to be small.

Alternatives Considered

The FDIC considered the status quo alternative to maintain or amend the existing guidance and not include the guidance as a new codified appendix to the agencies’ safety and soundness rules. However, for reasons previously stated in the Background section of the SUPPLEMENTARY INFORMATION, the FDIC considers the proposal to be a more appropriate alternative.

Other Statutes and Federal Rules

The FDIC has not identified any likely duplication, overlap, and/or potential conflict between this proposal and any other federal rule.

The FDIC invites comments on all aspects of the supporting information provided in this RFA section. In particular, would the proposal have any significant effects on small entities that the FDIC has not identified?

C. Plain Language

Section 722 of the Gramm-Leach-Bliley Act requires the Federal banking agencies to use plain language in all proposed and final rules published after January 1, 2000. The agencies have sought to present the proposal as a new appendix to certain codified safety and soundness rules in a simple and straightforward manner and invite comment on the use of plain language. For example:

- Have the agencies organized the material to suit your needs? If not, how could the proposal be more clearly stated?
- Does the proposal contain technical language or jargon that is not clear? If so, which language requires clarification?
- Would a different format (grouping and order of sections, use of headings, paragraphing) make the proposal easier to understand? If so, what changes would achieve that?
- Is the section format adequate? If not, which of the sections should be changed and how?
- What other changes can the agencies incorporate to make the proposal easier to understand?

D. Riegle Community Development and Regulatory Improvement Act of 1994

Pursuant to section 302(a) of the Riegle Community Development and Regulatory Improvement Act of 1994 (RCRHA), in determining the effective date and administrative compliance requirements for new regulations that impose additional reporting, disclosure, or other requirements on insured depository institutions, each Federal banking agency must consider, consistent with principles of safety and soundness and the public interest, any administrative burdens that such regulations would place on depository institutions, including small depository institutions, and customers of depository institutions, as well as the benefits of such regulations. In addition, section 302(b) of CDRRA requires new regulations and amendments to regulations that impose additional reporting, disclosures, or other new requirements on insured depository institutions generally to take effect on the first day of a calendar quarter that begins on or after the date on which the regulations are published in final form.

The agencies invite comments that will further inform their consideration of CDRRA.

E. OCC Unfunded Mandates Reform Act of 1995

The OCC analyzed the proposal under the factors set forth in the Unfunded Mandates Reform Act of 1995 (UMRA). Under this analysis, the OCC considered whether the proposal includes a Federal mandate that may result in the expenditure by State, local, and Tribal governments, in the aggregate, or by the private sector, of $157 million or more in any one year (as adjusted for inflation). The OCC has determined that the proposal, if implemented, could result in total costs of approximately $1 million for OCC institutions. Therefore, the OCC believes the proposal, if adopted as final, will not result in a Federal mandate imposing costs of $157 million or more.

Text of Common Proposed Guidelines on Tax Allocation Agreements (All Agencies)

Appendix [ ]

Interagency Guidelines on Safety and Soundness Standards for Tax Allocation Agreements

I. Introduction


A. Scope

These Guidelines apply to a [BANK] that is part of a consolidated or combined group for federal or state income tax purposes. These Guidelines apply only if the [BANK] is subject to corporate income tax obligations at the federal or state level and files income taxes as part of a consolidated group.

B. Preservation of Existing Authority

Neither section 39 of the Federal Deposit Insurance Act (12 U.S.C. 1831p–1) nor these Guidelines in any way limits the authority of the [AGENCY] to address unsafe or unsound practices or conditions or other violations of law or regulation. The [AGENCY] may take action under section 39 of the FDIA and these Guidelines independently of or in addition to any other supervisory or enforcement authority available to the [AGENCY].

C. Definitions

Consolidated group means one or more [BANKS], any parent holding company, and any other affiliate that file federal or state income tax returns on a consolidated basis.

Deferred tax items mean deferred tax assets and deferred tax liabilities.

Separate entity basis refers to a situation where each [BANK] is viewed, and reports its applicable income taxes and its deferred tax items, as if it were a stand-alone legal and accounting entity for regulatory reporting purposes, notwithstanding its membership in a consolidated group. For purposes of this definition, when a [BANK] has subsidiaries that are included with the [BANK] in the consolidated group return, the [BANK’s] applicable income

60 12 U.S.C. 4802(a).
taxes and deferred tax items on a separate entity basis include the applicable income taxes and deferred tax items of its subsidiaries, unless eliminated in consolidation for regulatory reporting purposes.

II. General Provisions

A. Purpose. A [BANK] must ensure that its inclusion in a consolidated or combined group tax return does not prejudice the interests of any [BANK] that is a member of the consolidated group. For purposes of this standard, intercorporate tax settlements between a [BANK] and its parent company do not prejudice the interests of a [BANK] provided that the settlements are conducted in a manner that is no less favorable to the [BANK] than if it were a separate taxpayer.

B. Measurement of Current and Deferred Income Taxes. U.S. generally accepted accounting principles and instructions for the preparation of Reports of Condition and Income require [BANKS] to provide for their current tax liability or benefit as well as for deferred income taxes resulting from any temporary differences and tax carryforwards.

1. When the [BANKS] in a consolidated group prepare separate regulatory reports, each [BANK] must record current and deferred taxes as if it filed its tax returns on a separate entity basis, regardless of the consolidated group's tax paying or refund status. Adjustments for statutory tax considerations that arise in a consolidated return may be made to the [BANK]'s liability as calculated on a separate entity basis, as long as they are made on a consistent and equitable basis among all members of the consolidated group.

2. A [BANK] must recognize all of its deferred tax items, including those based on or attributable to temporary differences or net operating loss or tax credit carryforwards on its separate-entity regulatory reports, and these items cannot be presented separate from the entity that reports the asset or liability that gave rise to them. A [BANK] is prohibited from derecognizing any of its deferred tax items unless those items are reversed, are settled through payment to the [BANK] because the items are absorbed in a current tax period by the consolidated tax group, or are transferred in connection with the transfer of the associated assets or liabilities that gave rise to the deferred tax items.

C. Tax Refunds.

1. A [BANK] that files tax returns as part of a consolidated group must enter into a tax allocation agreement that specifies that a parent company that receives a tax refund from a taxing authority obtains these funds as agent for the [BANK] member whose tax attributes created the tax refund. This refund could be the result of a current year tax loss carried back to years with taxable income or quarterly payments made in excess of the current tax liability owed by the [BANK]. The agreement must specify that the parent hold such funds in trust for the exclusive benefit of the member [BANK] that owns the funds and must promptly remit the funds held in trust to such member [BANK]. The agreement must also specify that the parent company does not obtain any ownership interest in any tax refund because it receives a tax refund from a taxing authority.

2. If a [BANK]'s loss or credit is used to reduce the consolidated group's overall tax liability, the [BANK] must reflect the tax benefit of the loss or credit in the current portion of its applicable income taxes in the period the loss or credit is incurred, and the [BANK] must obtain compensation for the use of its loss or credit at the time that it is used. If a [BANK]'s loss or credit is not absorbed in the current period by the consolidated group, the [BANK] must not recognize the tax benefit in the current portion of its applicable income taxes in the loss year. Rather, the tax loss or credit represents a loss carryforward, the benefit of which is recognized as a deferred tax asset, net of any valuation allowance.

3. If a [BANK] that has received a refund from the taxing authority if it had filed on a separate entity basis, but there is no ability to obtain an actual refund because other members in the consolidated group had losses that offset the [BANK]'s separate tax liability for the previous year, the [BANK] must obtain no less than its stand-alone refund amount from the parent company on or before the date the [BANK] would have filed its own return if it had filed on a separate entity basis. To the extent the group has previously made a payment to the [BANK] for the use of its loss by the group, such amount can offset the amount due.

D. Income Tax Forgiveness Transaction. A tax allocation agreement may allow a subsidiary [BANK] to pay a parent company less than the full amount of the current income tax liability that the [BANK] would have owed if calculated on a separate entity basis. Provided the parent will not later require the [BANK] to pay the remaining stand-alone current tax liability, the [BANK] must account for this unremitted liability as having been paid with a simultaneous capital contribution by the parent to the [BANK]. In contrast, because a parent cannot relieve a [BANK] of future tax liability to a taxing authority, a [BANK] may not enter into a transaction in which a parent purports to forgive some or all of the [BANK]'s deferred tax liability, through a capital contribution or otherwise.

III. Intercompany Tax Allocation Agreements

A. Intercompany Tax Allocation Agreement. Each [BANK] that is part of a consolidated group must enter into a written tax allocation agreement with its holding company that protects the tax position of the [BANK] and is consistent with the principles in Section II and the terms described below, as well as the requirements of sections 23A and 23B of the Federal Reserve Act (12 U.S.C. 371c and 371c–1). The board of directors, or a duly authorized committee thereof, of each [BANK] and each holding company must approve the tax allocation agreement.

B. Terms. The tax allocation agreement must:

1. Expressly state and not contain language to suggest a contrary intent:
   a. That an agency relationship exists between the [BANK] and its holding company with respect to tax refunds and that the [BANK] owns the tax assets that were created from its tax attributes;
   b. That any refund received from the taxing authority and due to the [BANK] is held in trust by the holding company; and
   c. That, notwithstanding any other transactions to the contrary, the [BANK] must receive promptly any tax refund attributable to the [BANK]'s tax attributes.

2. Include the following paragraph or substantially similar language:
   “The [name of holding company] is an agent for the [name of institution] (the "Institution") with respect to all matters related to consolidated tax returns and refund claims, and nothing in this agreement shall be construed to alter or modify this agency relationship. If the [name of holding company] receives a tax refund attributable to income earned, taxes paid, or losses incurred by the Institution from a taxing authority, these funds are obtained as agent for the Institution. Any tax refund attributable to income earned, taxes paid, or losses incurred by the Institution is the property of and owned by the Institution, and must be held in trust by the [name of holding company] for the benefit of the Institution. The [name of holding company] must forward promptly the
amounts held in trust to the Institution. Nothing in this agreement is intended to be or should be construed to provide the [name of holding company] with an ownership interest in a tax refund that is attributable to income earned, taxes paid, or losses incurred by the Institution. The [name of holding company] hereby agrees that this tax sharing agreement does not give it an ownership interest in a tax refund generated by the tax attributes of the Institution.”

3. With respect to tax payments from the [BANK] to its affiliates:
   a. Prohibit payments in excess of the current period tax expense or reasonably calculated estimated tax expense of the [BANK] on a separate entity basis;
   b. Prohibit payment for the settlement of any deferred tax liabilities of the [BANK]; and
   c. Prohibit payment from occurring earlier than when the [BANK] would have been obligated to pay the taxing authority had it filed as a separate entity.

4. State that if a [BANK’s] loss or credit is used to reduce the consolidated entity’s current period tax expense or credit in the current period tax expense or credit in the current portion of its applicable income taxes in the period the loss or credit is incurred, and the parent company must compensate the [BANK] for the use of its loss or credit at the time that it is used.

5. State that all materials, including, but not limited to, returns, supporting schedules, workpapers, correspondence, and other documents relating to the consolidated federal income tax return and any consolidated, combined, or unitary group state or local returns must be made available on demand to the [BANK] or any successor during regular business hours. The tax allocation agreement must provide that this obligation will survive any termination of the tax allocation agreement.

End of Common Proposed Guidelines on Tax Allocation Agreements

List of Subjects
12 CFR Part 30

Safety and soundness standards.

12 CFR Part 208


12 CFR Part 364

Banks, banking, Information.

Adoption of Proposed Common Guidelines

The adoption of the proposed common guidelines by the agencies, as modified by the agency-specific text, is set forth below:

DEPARTMENT OF THE TREASURY
Office of the Comptroller of the Currency

12 CFR Chapter I
Authority and Issuance

For the reasons stated in the SUPPLEMENTARY INFORMATION, the Office of the Comptroller of the Currency proposes to amend part 30 of chapter I of Title 12, Code of Federal Regulations as follows:

PART 30—SAFETY AND SOUNDNESS STANDARDS

1. The authority citation for part 30 continues to read as follows:


Appendix D–3 [Added]

5. Amend part 208 by adding Appendix D–3 as set forth at the end of the common preamble:

Appendix D–3 [Amended]

6. Amend Appendix D–3 of part 208 by:
   a. Removing “[BANK]” and adding in its place “state member bank’’;
   b. Removing “[BANK]” and adding in its place “state member banks’, and
   c. Removing “[BANK’s]” and adding in its place “state member bank’s”, whenever it appears.

b. Removing “[AGENCY]” and adding in its place “Board” whenever it appears.

FEDERAL DEPOSIT INSURANCE CORPORATION

12 CFR Chapter III
Authority and Issuance

For the reasons set forth in the common preamble, the Federal Deposit Insurance Corporation proposes to amend part 364 of chapter III of title 12 of the Code of Federal Regulations as follows:

PART 364—STANDARDS FOR SAFETY AND SOUNDRNESS

7. The authority citation for part 364 continues to read as follows:

Authority: 12 U.S.C. 1818 and 1819 (Tenth), 1831p–1; 15 U.S.C. 1681s, 1681w, 1681s, 1681w, 6801(b), 6805(b)(1).

Appendix C [Amended]

8. Amend part 364 by adding Appendix C as set forth at the end of the common preamble.

Appendix C [Amended]

9. Amend Appendix C of part 364 by:
   a. Removing “[BANK]” and adding in its place “FDIC-supervised institution”,

   b. Removing “[BANK]” and adding in its place “FDIC-supervised机构”，
removing “[BANKS]” and adding in its place “FDIC-supervised institutions”, and removing “[BANK’S]” and adding in its place “FDIC-supervised institution’s”, whenever it appears.

b. Removing “[AGENCY]” and adding in its place “FDIC” whenever it appears.


By order of the Board of Governors of the Federal Reserve System.

Ann E. Misback, Secretary of the Board.

Federal Deposit Insurance Corporation.

By order of the Board of Directors.

Dated at Washington, DC, on April 21, 2021.

James P. Sheesley, Assistant Executive Secretary.

[FR Doc. 2021-09947 Filed 5–7–21; 8:45 am]

BILLING CODE 4810–33–P; 6210–01–P; 6714–01–P

FEDERAL DEPOSIT INSURANCE CORPORATION

12 CFR Part 328

RIN 3064–AF71

False Advertising, Misrepresentation of Insured Status, and Misuse of the FDIC’s Name or Logo

AGENCY: Federal Deposit Insurance Corporation.

ACTION: Notice of proposed rulemaking and request for information.

SUMMARY: The Federal Deposit Insurance Corporation is seeking comment on a proposed rule to implement section 18(a)(4) of the Federal Deposit Insurance Act. Section 18(a)(4) of the Federal Deposit Insurance Act prohibits any person from making false or misleading representations about deposit insurance or from using the Federal Deposit Insurance Corporation’s name or logo in a manner that would imply that an uninsured financial product is insured or guaranteed by the Federal Deposit Insurance Corporation. The proposed rule would describe: The process by which the Federal Deposit Insurance Corporation will identify and investigate conduct that may violate section 18(a)(4) of the Federal Deposit Insurance Act; the standards under which such conduct will be evaluated; and the procedures which the Federal Deposit Insurance Corporation will follow when formally and informally enforcing the provisions of section 18(a)(4) of the Federal Deposit Insurance Corporation Act.

DATES: Comments are due on or before July 9, 2021. Comments on the Paperwork Reduction Act burden estimates are due on or before July 9, 2021.

ADRESSES: You may submit comments, identified by RIN 3064–AF71, by any of the following methods:

• FDIC website: https://www.fdic.gov/regulations/laws/federal/. Follow instructions for submitting comments on the agency website.

• FDIC Email: Comments@fdic.gov. Include RIN 3064–AF71 on the subject line of the message.

• Mail: James P. Sheesley, Assistant Executive Secretary, Legal-ESS, Attention: Comments—RIN 3064–AF71, Federal Deposit Insurance Corporation, 550 17th Street NW, Washington, DC 20429.

• Hand Delivery/Courier: Comments may be hand-delivered to the guard station at the rear of the 550 17th Street NW building (located on F Street) on business days between 7 a.m. and 5 p.m.

Please include your name, affiliation, address, email address, and telephone number(s) in your comment. All statements received, including attachments and other supporting materials, are part of the public record and are subject to public disclosure. You should submit only information that you wish to make publicly available.

Please note: All comments received will be posted generally without change to https://www.fdic.gov/regulations/laws/federal/, including any personal information provided.


SUPPLEMENTAL INFORMATION:

I. Policy Objectives

Section 18(a)(4) of the Federal Deposit Insurance Act, 12 U.S.C. 1828(a)(4), (Section 18(a)(4)) prohibits any person from misusing the name or logo of the Federal Deposit Insurance Corporation (FDIC) or from engaging in false advertising or making knowing misrepresentations about deposit insurance. The FDIC has observed an increasing number of instances where financial services providers or other entities or individuals have misused the FDIC’s name or logo or have made false or misleading representations that would suggest that a provider’s products are FDIC-insured.

To provide transparency into how the FDIC will address these and similar concerns, the FDIC is proposing to adopt regulations to further clarify its procedures for identifying, investigating, and where necessary taking formal and informal action to address potential violations of Section 18(a)(4). The regulations would also establish a point-of-contact for receiving complaints about potentially false or misleading representations regarding deposit insurance and would direct depositors and prospective depositors to where they could obtain information or verification about deposit insurance claims. Although the FDIC is not required to promulgate regulations to implement section 18(a)(4), the FDIC nonetheless believes that the proposed rule, if adopted, would establish a more transparent process that will benefit all parties and would promote stability and confidence in FDIC deposit insurance and the nation’s financial system.

II. Background

The FDIC has steadfastly and proactively sought to protect depositors and prospective depositors by limiting use of the FDIC’s name, seal, and logo to insured depository institutions (IDIs) and preventing false and misleading representations about the manner and extent of FDIC deposit insurance (deposit insurance). Under Federal law, it is a criminal offense to misuse the FDIC name or make false representations regarding deposit insurance.1 Moreover, the FDIC has independent authority to investigate and take administrative enforcement actions, including the power to issue cease and desist orders and impose civil money penalties, against any person who: (1) Falsely represents or implies that any deposit liability, obligation, certificate, or share is insured by the FDIC; or (2) otherwise knowingly misrepresents: (a) That any deposit liability, obligation, certificate, or share is insured, or (b) the extent or manner

1 See 18 U.S.C. 709 (‘‘Whoever, except as expressly authorized by Federal law, uses the words ‘Federal Deposit’. Federal Deposit Insurance’, or ‘Federal Deposit Insurance Corporation’ or a combination of any three of these words, as the name or a part thereof under which he or it does business, or advertises or otherwise represents falsely by any device whatsoever that his or its deposit liabilities, obligations, certificates, or shares are insured or guaranteed by the Federal Deposit Insurance Corporation, or by the United States or by any instrumentality thereof, or whoever advertises that his or its deposit liabilities, obligations, certificates, or shares are federally insured, or falsely advertises or otherwise represents by any device whatsoever the extent to which or the manner in which the deposit liabilities of an insured bank or banks are insured by the Federal Deposit Insurance Corporation . . . Shall be punished . . . by a fine under this title or imprisonment for not more than one year . . . ‘’).
in which any deposit liability, obligation, certificate, or share is insured.²

Although the FDIC has broad statutory authority in this area, the FDIC has never issued specific regulations regarding false representations related to FDIC insurance or the misuse of the FDIC’s name or logo.

On February 26, 2020, the FDIC published in the Federal Register a Request for Information (RFI) related to potential modernization of its signage and advertising rules set out in part 328 of the FDIC regulations.³ This RFI included the questions tied to the deposit insurance misrepresentation issues discussed in this Notice of Proposed Rulemaking.⁴ On March 13, 2020, the FDIC published an extension of the comment period in the Federal Register.⁵ However, on April 16, 2020, in light of COVID–19, the FDIC announced that it was temporarily postponing its efforts to modify the rules under part 328 of the FDIC regulations.

In light of the increasing number of instances where financial services providers or other entities providing financial services or advice to financial services providers or other entities or individuals have misused the FDIC’s name or logo, the FDIC has elected to address false or misleading representation and misuse issues through this Notice of Proposed Rulemaking. Because the FDIC is committed to obtaining input on these issues from the industry and the public, we have included relevant questions in this document.

Separately, on April 9, 2021, the FDIC re-issued its RFI regarding the FDIC Sign and Official Advertising Requirements.⁶ The 2021 RFI focuses on soliciting information on the modernization of the FDIC’s advertising requirements applicable to IDIs, and related topics. While questions related to misrepresentation and misuse have been removed from that document, there remains a degree of overlap between the RFI and the proposed rule and responses to the RFI may provide information that is relevant to consideration of the proposed rule. For example, the RFI asks about how to deal with parties that may be fraudulently impersonating insured depository institutions, which necessarily overlaps with the proposed rule. Therefore, the FDIC will consider relevant comments submitted in response to the RFI together with comments submitted in response to the proposed rule, in adopting the final rule.

III. Summary of Proposed Regulation

The proposed regulation establishes a new subpart B to part 328, entitled “False Advertising, Misrepresentation of Insured Status, and Misuse of the FDIC’s Name or Logo.” The proposed subpart sets forth the process by which the FDIC will identify and investigate conduct that may violate Section 18(a)(4), the standards under which such conduct will be evaluated, and the procedures which the FDIC will follow when formally and informally enforcing the provisions of Section 18(a)(4).

Section 328.100—Scope

Section 328.100 notes that, unlike many FDIC regulations, which are binding upon IDIs and institution-affiliated parties (IAPs), this regulation, consistent with the authority set forth in Section 18(a)(4), will apply to any person who violates Section 18(a)(4) or who aids another in such a violation.

Section 328.101—Definitions

Section 328.101 sets forth certain definitions that will be used throughout the subpart. Such definitions include, but are not limited to the terms or phrases “non-deposit product,” “uninsured financial product,” “misleading terms.”

Section 328.102—Prohibition

Section 328.102 sets forth the conduct that is prohibited by Section 18(a)(4). It further provides transparency by setting forth the FDIC’s interpretation of the scope of prohibited conduct, including specific examples of conduct that the FDIC deems to violate Section 18(a)(4). The identified practices include instances where false statements are made regarding the existence or extent of deposit insurance associated with a product, as well as instances where material information is omitted from a representation (e.g., where a non-bank third party represents that its products are FDIC-insured without identifying the name or the names of the IDIs where customer deposits will be placed and through whom such insurance is derived.) These examples are not meant to be an exhaustive list, but rather specific examples of the type of conduct that the FDIC has observed that violate the prohibitions in Section 18(a)(4).

This list is not intended to be an exhaustive list, and the FDIC may modify the list based on responses to this notice or the RFI.

The section further sets forth certain standards that the FDIC will use to determine if a statement violates Section 18(a)(4). The standards laid out in §328.102 are adapted from the standards that Federal Trade Commission developed decades ago to determine if acts or practices are deceptive in violation of Section 5 of the Federal Trade Commission Act, 15 U.S.C. 45 (Section 5).⁷ While Section 18(a)(4) is separate from Section 5, it prohibits similar conduct—deception in connection with commerce. The standards governing deception under Section 5 have been consistently accepted by courts, and used by the FTC and other agencies, including the FDIC, which enforces prohibitions of Section 5 against the institutions it supervises and IAPs of those institutions.⁸ In light of the long-term use and acceptance of these standards, the FDIC believes it is appropriate to use similar standards to determine if a representation about deposit insurance violates Section 18(a)(4).

Section 328.102 also sets forth a bright-line rule for when the FDIC will presume a misrepresentation to have been knowingly made (i.e., when a respondent continues to make representations about deposit insurance after having been advised by a governmental or regulatory authority that such representations are false or misleading). This bright-line rule is not, however, intended to be the exclusive manner in which the FDIC can establish that any misrepresentation was knowingly made, and the agency reserves the right to establish this statutory element by introducing other evidence.

Section 328.103—Inquiries and Complaints

Section 328.103 provides a process by which members of the public may submit complaints to the FDIC regarding suspected false or misleading representations about deposit insurance. It also directs members of the public to submit inquiries about representations

² See 12 U.S.C. 1828(a)(4)(C)–(D). With regard to an insured depository institution under the supervision of another Federal banking agency, the FDIC shall first write to that agency to take enforcement action under section 18(a)(4) against any entity for which the agency is the appropriate Federal banking agency or any institution-affiliated party of such entity; if that agency takes no action within 30 days, the FDIC may take action.
³ 85 FR 10997 (Feb. 26, 2020).
⁴ Id, at 10999–11000.
⁵ 85 FR 14678 (Mar. 13, 2020).
⁶ 86 FR 18528 (Apr. 9, 2021).
⁷ See generally, FTC Policy Statement on Deception, October 14, 1983.
⁸ See, e.g., FTC v. Stepanchik, 559 F.3d 924 (9th Cir. 2009).
Section 328.104—Investigation

Section 328.104 sets forth procedures for formal investigations into potential violations of Section 18(a)(4). Among other things, the section delegates authority to the FDIC’s General Counsel to investigate potential violations and provides that such investigations will be conducted in accordance with section 10(c) of the Federal Deposit Insurance Act \(^{10}\) and the FDIC’s rules governing investigations, which are found in subpart K of the FDIC’s Rules of Practice and Procedure.\(^ {11}\) Section 328.104 further provides that, notwithstanding the longstanding confidentiality provisions found in 12 CFR 308.147, in those limited circumstances where there is risk of imminent harm to consumers or depositors, the FDIC may disclose the existence of an investigation under this part that does not involve a bank or a known IAP of a bank. This disclosure authorization, which is a departure from the general practice of maintaining the confidentiality of investigations, is intended to further the FDIC’s mission of promoting confidence and stability in the banking system by allowing it to disclose investigations into potentially false or misleading representations about deposit insurance where there is a risk of imminent harm to consumers or depositors.

Section 328.105—Referral to Appropriate Authority

Section 328.105 sets forth circumstances under which the FDIC may notify other authorities of potential violations of law that it becomes aware of in connection with a complaint, inquiry, investigation or action under this subpart. Section 328.105 provides that the FDIC may recommend that another appropriate Federal banking agency take action to enforce Section 18(a)(4) against an IDI that is subject to the authority of that appropriate Federal banking agency or an IAP of such an institution. Such recommendations are authorized by Section 18(a)(4), which also provides that if the appropriate Federal banking agency fails to take action within 30 days, the FDIC may take enforcement action.

Section 328.105 further provides that, in the event the FDIC becomes aware of conduct that potentially violates laws or regulations within the jurisdiction of another regulatory authority, the FDIC may take steps to notify the appropriate authority.

Section 328.105 also provides that, in the event the FDIC becomes aware of conduct that potentially constitutes a criminal violation of 18 U.S.C. 709, the FDIC may, in appropriate circumstances, notify the FDIC Office of the Inspector General or the appropriate criminal law authority. Finally, § 328.105 contains provisions governing the provision of any records to other regulatory or criminal authorities in connection with notice under the section.

Section 328.106—Informal Resolution

Historically, the FDIC has generally resolved apparent violations of Section 18(a)(4) informally by notifying the party responsible and requesting that the apparent false or misleading representation be withdrawn and corrected. Section 328.106 sets forth the process the FDIC will follow when pursuing an informal resolution. Under this process, the FDIC will generally send any person that appears to be making a false or misleading representation, or any person aiding or abetting such a representation, an advisory letter notifying the person of the basis for the FDIC’s concerns and requesting corrective action. Such letters will also provide the recipient the opportunity to provide the FDIC with supplemental information if the recipient contends that the representations made are true and not misleading and/or that any use of the FDIC’s name or logo is authorized.

Examples of the general form such advisory letters may take may be found on the FDIC’s public website at https://www.fdic.gov/regulations/laws/federal/2021/template-advisory-letters.pdf. Form A–1 provides a template advisory letter for communicating directly with a person that is believed to be misusing the FDIC’s name or logo or making false or misleading representations about deposit insurance. Form A–2 provides a template advisory letter for communications directed to a third-party publisher that may be disseminating potentially false or misleading representations regarding deposit insurance. Form A–3 provides a template for communications with internet service providers (ISPs), alerting them that a website hosted by the ISP may be making false representations in violation of Section 18(a)(4).

Generally, the FDIC will only send such advisory letters to an ISP if the website in question contains one or more indicia of fraud. Such indicia would include, among other things, evidence that: (1) The website purports to belong to or be associated with an IDI when the IDI disclaims any ownership or association with the website; (2) the website appears to mirror or look like a valid website maintained by an IDI by spoofing or copying photos or pages from the IDI’s website in an attempt to deceive depositors into believing that the website belongs to or is associated with the IDI; (3) the website purports to belong to an IDI, when no such IDI exists; or (4) there are geographic or other inconsistencies on the site (e.g., the website is hosted abroad or the contact information reflected on the site does not match those on file with the FDIC).

Section 328.106 further provides that if the recipient of such a letter takes the requested corrective action within the time requested, the FDIC will generally take no further action. However, if the recipient fails to timely take corrective action, the FDIC may pursue all remedies available to it. Additionally, pursuant to § 328.106, the FDIC may commence formal enforcement action at any time if the FDIC has reason to believe that depositors or IDIs may suffer harm as a result of continued conduct or if the person making the false or misleading representation has been previously advised of the agency’s concerns.

Section 328.107—Formal Enforcement Action

Section 328.107 sets forth the procedures that will govern any formal enforcement action brought by the FDIC to enforce the provisions of Section 18(a)(4). Under § 328.107, and as authorized by Section 18(a)(4), the FDIC may bring formal actions to enforce Section 18(a)(4) under section 8 of the Federal Deposit Insurance Act (Section 8) \(^{12}\) against any person in the same

\(^{10}\) 12 U.S.C. 1820(c).

\(^{11}\) 12 CFR 308.144–150.
manner and to the same extent that it can bring such actions against insured state nonmember banks and their IAPs. Section 328.107 authorizes the FDIC General Counsel to bring an action against any person to enforce the provisions of Section 18(a)(4); however, it provides that in the case of an IDI for which another Federal banking agency is the appropriate Federal banking agency, the General Counsel can only commence an action if the appropriate Federal banking agency fails to take action after receiving a recommendation pursuant to §328.105. It further provides that administrative proceedings brought to enforce Section 18(a)(4) will be governed by the FDIC’s Rules of Practice and Procedure set forth in Part 308 of the FDIC’s Regulations.

Section 328.107 also sets forth the venue for formal enforcement actions. In the case of actions against IDIs or IAPs, venue will be in the federal judicial district where the home office of the IDI is located. This is consistent with the venue provisions of Section 8. In actions that do not involve IDIs or IAPs, venue will be based on the residence of the respondent, similar to the manner in which venue is determined for general civil actions under 29 U.S.C. 1391. The FDIC believes these venue provisions are consistent with existing law and due process.

Section 328.108—Appeals Process

Section 328.108 clarifies that any order issued after hearings conducted pursuant to this subpart is subject to judicial review to the same extent as any other order issued under Section 8. While Section 18(a)(4) does not expressly provide for judicial review, it does authorize enforcement actions under Section 8, which provides for such review. The FDIC believes that this grant of authority includes the right to seek judicial review and further believes such right is necessary and appropriate. Section 328.108 also provides that any petitions for judicial review may be filed in the court of appeals for the federal circuit where the hearing was held or the United States Court of Appeals for the District of Columbia Circuit. This venue provision is consistent with the venue provisions of Section 8 and provides respondents with the same choice of venue provided after any other FDIC enforcement hearing.

IV. Expected Effects

The proposed rule, if adopted, would primarily affect non-bank entities and individuals who are potentially misusing the FDIC’s name or logo or are making false or misleading representations about deposit insurance. The FDIC currently insures 5,042 depository institutions 13 that could also be affected; however in practice, the proposed rule would primarily affect non-bank entities and private individuals. Since the adoption of Section 18(a)(4) in 2008, the FDIC has issued only one formal enforcement order against a non-bank entity for misuse of the FDIC’s name or logo or for misrepresentations or false advertising in relation to deposit insurance. However, as previously noted the FDIC has observed a recent increase in the number of instances where financial services providers or other entities or individuals have misused the FDIC’s name or logo or have made misrepresentations that would falsely suggest to the public that these providers’ products are FDIC-insured and been subject to an informal resolution. Between January 1, 2019, and December 31, 2020, the FDIC has worked with non-bank entities to reach informal resolutions regarding the potential misuse of the FDIC’s name or logo and/or misrepresentations related to deposit insurance in at least 165 instances.14 Based on this experience, the FDIC estimates that the proposed rule, if adopted, would apply to relatively few formal enforcement actions and conservatively estimates that it would affect fewer than 165 informal resolutions with non-bank entities and individuals each year.

As discussed previously, the proposed rule, if adopted, would clarify the FDIC’s procedures for evaluating potential violations of Section 18(a)(4). The proposed rule would generally be consistent with existing practices used by the FDIC with respect to these matters. Further the proposed rule, if adopted, would not affect the application of related criminal prohibitions under 18 U.S.C. 709. Therefore, the FDIC believes that the proposed rule, if adopted, would be unlikely to have any significant effect on formal and informal enforcement of the Section 18(a)(4) prohibitions. The FDIC believes that the proposed rule, if adopted, would benefit FDIC-insured institutions and members of the public by further clarifying what constitutes a violation of Section 18(a)(4), by creating a process by which institutions and members of the public can report suspected instances of false advertising, misuse, or misrepresentation regarding deposit insurance, and by establishing clear procedures by which the FDIC will investigate and, where necessary, formally and informally resolve potential violations of Section 18(a)(4). Specifically, the added transparency on the FDIC’s processes for investigating potential instances of misuse or misrepresentation and, if needed, resolution are expected to benefit the parties involved by establishing a common understanding of those processes.

V. Alternatives

The FDIC has considered alternatives to the rule but believes that adopting subpart B to part 328 represents the most appropriate option. As discussed previously, Section 18(a)(4) establishes prohibitions against the misuse of the FDIC’s name or logo and prohibits misrepresentations and false advertising in relation to deposit insurance. The FDIC considered the status quo alternative of not adopting a regulation that further clarifies what constitutes misuse of FDIC name or logo or false or misleading representation with respect to FDIC insurance, how the FDIC will identify and investigate suspected instances of misuse or misrepresentation, and the process by which the FDIC will pursue formal or informal resolution of instances of misuse or misrepresentation. However, based on the FDIC’s recent experience addressing instances of potential and actual misuse, misrepresentation, and false advertising in relation to the FDIC name and logo, the FDIC believes that the proposed rule is the most appropriate action.

VI. Request for Comments

The FDIC invites comments on all aspects of this proposed rulemaking. In particular, the FDIC seeks feedback on the scope of the proposed rule and the procedures described therein, including the following specific questions:

False Advertising, Misuse of Logo, and Misrepresentations

1. Please describe the extent to which the proposed rule sufficiently identifies situations that present potential risks related to false or misleading representations regarding deposit insurance coverage and the misuse of the FDIC’s name or logo, including those related to specific products and advertising channels. If there are additional types of false or misleading representations about deposit insurance coverage that may not be effectively captured by the rule, please describe them.

2. Please describe the extent to which the proposed rule sufficiently addresses
false or misleading representations regarding deposit insurance and the misuse of the FDIC’s name and logo. If there are additional or alternative ways to more effectively or efficiently address such misrepresentations and/or misuse, please describe them.

3. Please describe any suggested additions to the proposed rule for preventing and addressing the risks of false or misleading representations regarding deposit insurance and/or the misuse of the FDIC’s name and logo. Are there other types of procedures the FDIC should consider? If so, please describe them.

5. Are there other alternative, effective, and efficient methods by which a customer can ensure that a third-party’s representations regarding deposit insurance are true and accurate? If so, please describe them.

6. Is the proposed informal resolution process an adequate means of addressing, in the first instance in most circumstances, potentially false or misleading representations regarding deposit insurance or misuse of the FDIC’s name and logo? Should the FDIC consider other or additional procedures? If so, please describe them.

7. The proposed rule contains a provision that would permit the FDIC, in those limited circumstances where there is risk of imminent harm to consumers or depositors, to confirm the existence of a formal investigation, so long as the target of the investigation was not an IDI or a known IAP thereof. This provision would be an exception to the longstanding confidentiality provisions found in 12 CFR 308.147. Is such an exception appropriate? Does the proposed rule strike an appropriate balance between addressing the need to maintain the confidentiality of investigations involving IDIs and known IAPs, versus the potential value in identifying the existence of investigations into nonbank persons and entities whose conduct may result in risk of imminent harm to consumers and depositors? Are there alternatives the FDIC should consider? If so, please describe them.

8. Is the informal enforcement action process sufficiently clear, given that Section 18(a)(4) expressly references the use of established enforcement mechanisms set forth in Section 8 of the FDI Act? Should other provisions be added? If so, please describe them.

9. Do the investigation, informal resolution, and formal enforcement action processes described in the proposed rule strike the appropriate balance between addressing in a timely manner potentially false or misleading representations regarding deposit insurance and allowing the parties identified as potentially participating in the false or misleading representations an opportunity to present additional facts or provide a legal defense?

Other Areas of Concern

10. Upon entering into a relationship or arrangement with a third-party non-bank entity, as part of FDIC-insured institutions’ due diligence, do such institutions currently take steps to ensure: (a) That the non-bank is aware of existing laws and regulations related to the use of the FDIC’s name and logo, and (b) that representations made by the non-bank regarding the insured status of bank products are accurate and comply with existing laws and regulations? If not, are there practices that FDIC-insured institutions could adopt to spread awareness of and compliance with these laws and regulations by non-banks?

11. Are there other topics or issues relating to false or misleading representations regarding deposit insurance or the misuse of the FDIC’s name and logo that the FDIC should consider? If so, please describe them and how you think the FDIC should address those topics and issues.

Written comments must be received by the FDIC no later than July 9, 2021.

VII. Administrative Law Matters

A. The Regulatory Flexibility Act

The Regulatory Flexibility Act (RFA), requires that, in connection with a notice of proposed rule making, an agency prepare and make available for public comment an initial regulatory flexibility analysis that describes the impact of the proposed rule on small entities. However, a regulatory flexibility analysis is not required if the agency certifies that the rule will not have a significant economic impact on a substantial number of small entities, and publishes its certification and a short explanatory statement in the Federal Register together with the rule.

The Small Business Administration (SBA) has defined “small entities” to include banking organizations with total assets of less than or equal to $600 million. Generally, the FDIC considers a significant effect to be a quantified effect in excess of 5 percent of total annual salaries and benefits per institution, or 2.5 percent of total noninterest expenses. The FDIC believes that effects in excess of these thresholds typically represent significant effects for FDIC-supervised institutions. For the reasons provided below, the FDIC certifies that the proposed rule, if adopted in final form, would not have a significant economic impact on a substantial number of small banking organizations. Accordingly, a regulatory flexibility analysis is not required.

As of September 30, 2020, the FDIC insured 5,042 depository institutions, of which 3,585 are considered small banking organizations for the purposes of RFA. Potential instances of misuse or misrepresentation of the FDIC name or logo by IDIs are usually addressed under the normal supervisory authority of the appropriate federal financial regulator, therefore although the proposed rule could affect IDIs, in practice the proposed rule would primarily affect non-bank entities and private individuals. Private individuals are not considered “small entities” by the terms of the RFA.

Based on the information above, the FDIC certifies that the proposed rule would not have a significant economic impact on a substantial number of small entities.

The FDIC invites comments on all aspects of the supporting information provided in this RFA section. In particular, would this rule have any significant effects on small entities that the FDIC has not identified?

B. Plain Language

Section 722 of the Gramm-Leach-Bliley Act requires the federal banking agencies to use plain language in all proposed and final rules.
published after January 1, 2000. The FDIC has sought to present the proposed rule in a simple and straightforward manner. The FDIC invites comments on whether the proposal is clearly stated and effectively organized, and how the FDIC might make the proposal easier to understand.

**C. The Economic Growth and Regulatory Paperwork Reduction Act**

Under section 2222 of the Economic Growth and Regulatory Paperwork Reduction Act of 1996 (EGPRPA), the FDIC is required to review all of its regulations, at least once every 10 years, in order to identify any outdated or otherwise unnecessary regulations imposed on insured institutions.20

**D. Riegle Community Development and Regulatory Improvement Act of 1994**

Pursuant to section 302(a) of the Riegle Community Development and Regulatory Improvement Act (RCDRIA),21 in determining the effective date and administrative compliance requirements for new regulations that impose additional reporting, disclosure, or other requirements on IDIs, each Federal banking agency must consider, consistent with principles of safety and soundness and the public interest, any administrative burdens that the regulations would place on depository institutions, including small depository institutions, and customers of depository institutions, as well as the benefits of the regulations. In addition, section 302(b) of RCDRIA requires new regulations and amendments to regulations that impose additional reporting, disclosures, or other new requirements on IDIs generally to take effect on the first day of a calendar quarter that begins on or after the date on which the regulations are published in final form.22 The FDIC invites comments that further will inform its consideration of RCDRIA.

**List of Subjects in 12 CFR Part 328**

**Advertising, Bank deposit insurance, Savings associations, Signs and symbols.**

**Authority and Issuance**

For the reasons stated in the preamble, the Federal Deposit Insurance Corporation proposes to amend 12 CFR part 328 as follows:

- 1. Revise the heading for part 328 to read as follows:

**PART 328—ADVERTISEMENT OF MEMBERSHIP, FALSE ADVERTISING, MISREPRESENTATION OF INSURED STATUS, AND MISUSE OF THE FDIC’S NAME OR LOGO**

- 2. Revise the authority citation for part 328 to read as follows:
  
  **Authority:** 12 U.S.C. 1818, 1819 (Tenth), 1820(c), 1828(a).

- 3. Add new subpart A of part 328 entitled “Subpart A—Advertisement of Membership.”

- 4. Redesignate §§ 328.0 through 328.4 as subpart A of part 328.

- 5. Reserve §§ 328.5 through 328.99.

- 6. Add a new part 328, subpart B to read as follows:

**Subpart B—False Advertising, Misrepresentation of Insured Status, and Misuse of the FDIC’s Name or Logo.**

- **§ 328.100 Scope.** This Subpart applies to any person who: (1) Falsely represents, expressly or by implication, that any deposit liability, obligation, certificate, or share is FDIC-insured by using the FDIC’s name or logo; (2) knowingly misrepresents, expressly or by implication, that any deposit liability, obligation, certificate, or share is insured by the FDIC if such an item is not so insured; (3) knowingly misrepresents, expressly or by implication, the extent to which or the manner in which any deposit liability, obligation, certificate, or share is insured by the FDIC, if such an item is not insured to the extent or manner represented; or (4) aid or abets another in any of the foregoing.

- **§ 328.101 Definitions.** For purposes of this subpart:
  
  (a) **Advertisement** means a commercial message, in any medium, that is designed to attract public attention or patronage to a product, business, or service.

  (b) **Appropriate Federal Banking Agency** has the meaning set forth in section 3(q) of the FDIC Act (12 U.S.C. 1813(q)).

  (c) **FDIA** means the Federal Deposit Insurance Act, 12 U.S.C. 1811 et seq.

  (d) **FDIC** means the Federal Deposit Insurance Corporation.

  (e) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (f) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (g) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (h) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (i) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (j) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (k) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (l) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (m) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (n) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (o) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (p) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (q) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (r) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (s) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (t) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (u) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (v) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (w) **FDIC-Associated Terms** means the abbreviation, “FDIC,” and the following words or phrases: “Federal Deposit Insurance Corporation,” “Federal Deposit,” “Federal Deposit Insurance,” “FDIC-insured,” “FDIC insurance,” “insured by FDIC,” “member FDIC,” any similar words or phrases; or any other terms that may represent or imply that any deposit, liability, obligation certificate, or share is insured or guaranteed by the FDIC.

  (x) **Fed...
(p) Third-Party Publisher means any party that publishes, places, distributes, or circulates advertising or marketing materials, regardless of the platform or media used for distribution, containing FDIC-Associated Images, FDIC-Associated Terms, or other claims regarding FDIC insurance or guarantees. Third-Party Publishers shall include, but not be limited to: Publishers and distributors of written, visual, or print advertising; broadcasters of video or audio advertisements; telemarketers; internet or web-based distributors, including internet service providers, and email marketers; and direct mail marketers and distributors.

(q) Uninsured Financial Product means any Non-Delay Product, Hybrid Product, investment, security, obligation, certificate, share, or financial product other than an “Insured Deposit” as defined in paragraph (k) of this section.

§328.102 Prohibition.

(a) Use of the FDIC Name or Logo.

(1) No person may represent or imply that any Uninsured Financial Product is insured or guaranteed by the FDIC by using FDIC-Associated Terms as part of any business name or firm name of any person;

(2) No person may represent or imply that any Uninsured Financial Product is insured or guaranteed by the FDIC by using FDIC-Associated Terms or by using FDIC-Associated Images as part of an Advertisement, solicitation, or other publication or dissemination.

(3) This subsection applies, but is not limited to:

(i) An Advertisement for any Uninsured Financial Product which feature or include one or more FDIC-Associated Terms or FDIC-Associated Images, without a clear, conspicuous, and prominent disclaimer that the products being offered are not FDIC insured or guaranteed;

(ii) An Advertisement for any Uninsured Financial Product which may be backed or guaranteed by an entity other than the FDIC, but which feature or include one or more FDIC-Associated Terms or FDIC-Associated Images, without a clear, conspicuous, prominent, and accurate explanation as to the actual nature and source of the guarantee;

(iii) An Advertisement for any Non-Delay Product or Hybrid Product by a Regulated Institution which include any statement or symbol which implies or suggests the existence of Federal deposit insurance relating to the Non-Delay product or Hybrid Product;

(iv) Publication or dissemination of information, regardless of the media or platform, that suggests or implies that the party making the representation is an FDIC-insured institution if this is not in fact true.

(v) Publication or dissemination of information, regardless of the media or platform, that suggests or implies that the party making the representation is associated with an FDIC-insured institution if the nature of the association is not clearly, conspicuously, prominently, and accurately described.

(vi) Publication or dissemination of information, regardless of the media or platform, that suggests or implies that the party making the representation is the FDIC or any office, division, or subdivision thereof, if this is not in fact true.

(vii) Publication or dissemination of information, regardless of the media or platform, that suggests or implies that the party making the representation is associated with the FDIC or any office, division, or subdivision thereof, if the nature of the association is not clearly, conspicuously, prominently, and accurately described.

(b) False or Misleading Representations regarding FDIC Insurance.

(1) No person may knowingly make false or misleading representations about deposit insurance, including:

(i) That any deposit liability, obligation, certificate, or share is insured, under this subpart, if such a deposit is not so insured;

(ii) the extent to which any deposit liability, obligation, certificate, or share is insured under this subpart, if such item is not insured to the extent represented;

(iii) the manner in which any deposit liability, obligation, certificate, or share is insured under this subpart, if such item is not insured in the manner represented.

(2) For the purposes of this subsection, a statement is deemed to be a statement regarding deposit insurance, if it:

(i) Includes any FDIC-Associated Images or FDIC-Associated Terms;

(ii) makes any representation, suggestion, or implication about the existence of FDIC insurance or the extent or manner of coverage; or

(iii) makes any representation, suggestion, or implication about the existence, extent, or effectiveness of any guarantee by FDIC in the event of financial distress by Insured Depository Institutions, whether a specific Insured Depository Institution or Insured Depository Institutions generally, including but not limited to bank failure, insolvency, or receivership of such institutions.

(3) For the purposes of this subsection, a statement regarding deposit insurance violates this section, if:

(i) The statement contains any material representations which would have the tendency or capacity to mislead a reasonable consumer, regardless of whether any such consumer was actually misled; or

(ii) the statement omits material information which would be necessary to prevent a reasonable consumer from being misled, regardless of whether any such consumer was actually misled.

Where such a statement is made by a person other than an Insured Depository Institution, failure to identify the name(s) of the Insured Depository Institution(s) that will be receiving the deposits is deemed a material omission.

(4) Without limitation, a false or misleading representation is deemed to be material if it states, suggests or implies that:

(i) Uninsured Financial Products are insured or guaranteed by the FDIC;

(ii) Insured Deposits (whether generally or at a particular Regulated Institution) are not insured or guaranteed by the FDIC;

(iii) the amount of deposit insurance coverage is different (whether greater or less) than actually provided under the FDIA;

(iv) the circumstances under which deposit insurance may be paid are different than actually provided under the FDIA;

(v) the requirements to qualify for deposit insurance, or the process by which deposit insurance would be paid, are different from what is provided under the FDIA and its implementing regulations, including false or misleading claims related to actions required of depositors to qualify for or obtain such insurance; or

(vi) Regulated Institutions may convert Insured Deposits into another form of liability that is not insured, such as unsecured debt or equity.

(5) Without limitation, a representation is deemed to have been knowingly made if the person making the representation:

(i) Has made false or misleading representations regarding deposit insurance;

(ii) has been advised by the FDIC in an advisory letter, as provided in §328.106(a) or has been advised by another governmental or regulatory authority, including, but not limited to, another Federal banking agency, the Federal Trade Commission, the U.S. Department of Justice, or a state bank
§ 328.103 Inquiries and Complaints.

Should any person have reason to believe that anyone is or may be acting in violation of section 18(a) of the FDIA (12 U.S.C. 1828(a)) or this subpart, or have questions regarding the accuracy of deposit-related representations, such individuals may contact the FDIC at the FDIC Information and Support Center, https://ask.fdic.gov/fdicinformationandsupportcenter/s, or by telephone at: 1–877–275–3342 (1–877–ASK–FDIC).

§ 328.104 Investigations of Potential Violations.

(a) The General Counsel shall have delegated authority to investigate potential violations of section 18(a) of the FDIA (12 U.S.C. 1828(a)) and this subpart.

(b) Such investigations will be conducted as prescribed under section 10(c) of the FDIA (12 U.S.C. 1820(c)) and subpart K of part 308 of the FDIC’s Rules of Practice and Procedure (12 CFR 308.144–150). Notwithstanding the general confidentiality provisions of 12 CFR 308.147, in cases which may pose a risk of imminent harm to consumers or depositors, the FDIC may disclose or confirm the existence of an investigation that does not involve an Insured Depository Institution or a known IAP thereof. Such disclosure shall not disclose any information obtained or uncovered during the course of the investigation.

§ 328.105 Referral to Appropriate Authority.

(a) If, in connection with the receipt of an inquiry or complaint, or during the course of an investigation, informal resolution, or formal enforcement under this subpart:

(1) The FDIC becomes aware of conduct by a Regulated Institution for which another Federal banking agency is the appropriate Federal banking agency or an Institution-Affiliated Party of such an institution, that appears to violate section 18(a) of the FDIA (12 U.S.C. 1828(a)), the FDIC may recommend that the appropriate Federal banking agency take appropriate enforcement action. If the appropriate Federal banking agency does not take the recommended action within 30 days, the FDIC may pursue any and all remedies available under section 18(a) or the FDIA (12 U.S.C. 1828(a)) and this subpart unless the FDIC has provided the requested commitment, explanation, or justification.

(2) the FDIC becomes aware of conduct that the FDIC has reason to believe violates a civil law or regulations within the jurisdiction of another regulatory authority, the FDIC may take steps to notify the appropriate authority: and

(3) the FDIC becomes aware of conduct that the FDIC has reason to believe violates 18 U.S.C. 709, the FDIC may notify FDIC’s Office of Inspector General for referral to the appropriate criminal law enforcement authority.

(b) To the extent that any records are provided to a regulatory or criminal law enforcement authority, as set forth in paragraph (a), of this section, the provision of such records will be made in accordance with the requirements of part 309. Where such records were obtained during the course of an investigation, informal resolution, or formal enforcement action, the General Counsel shall be considered the Director of the Corporation’s Division having primary authority over records so obtained.

§ 328.106 Informal Resolution.

(a) If the FDIC has reason to believe that any person may be misusing an FDIC-associated image or FDIC-associated term or otherwise violating § 328.102(a) or may be making false or misleading representations regarding deposit insurance in violation of § 328.102(b), the FDIC may issue an advisory letter to such a person and/or any person who aids or abets another in such conduct, including any Third-Party Publisher. Generally, such an advisory letter will:

(1) Alert the recipient of advisory letter of the basis for the FDIC’s concerns;

(2) Request that the person and/or Third-Party Publisher:

(i) Take reasonable steps to prevent any violations of section 18(a) of the FDIA (12 U.S.C. 1828(a)) and this subpart;

(ii) commit in writing to refrain from such violations in the future; and

(iii) notify the FDIC in writing that the identified concerns have been fully addressed and remediated; and

(3) Offer the person or Third-Party Publisher the opportunity to provide additional information, documentation, or justifications to substantiate the representations made or otherwise refute the FDIC’s expressed concerns.

(b) Except in cases where the FDIC has reason to believe that consumers or Insured Depository Institutions may suffer harm arising from continued violations, recipients of advisory letters described in paragraph (a) of this section, shall be provided not less than fifteen (15) days to provide the

§ 328.107 Formal Enforcement Actions.

(a) Enforcement Authority—For the purpose of enforcing the requirements of Section 18(a)(4) of the FDIA (12 U.S.C. 1818(a)(4)), the General Counsel is authorized to bring administrative enforcement actions against any person under sections 8(b), (c), (d), and (i) of the FDIA (12 U.S.C. 1818(b), 1818(c), 1818(d), and 1818(i)), in the same manner and to the same extent as with respect to a state nonmember insured bank. In the case of conduct by a Regulated Institution for which another Federal banking agency is the appropriate Federal banking agency or an institution-affiliated party of such an institution, the General Counsel may not bring an enforcement action against such a Regulated Institution without the prior written consent of the Federal banking agency for which such Regulated Institution is the appropriate Federal banking agency.

(b) When the FDIC has reason to believe that any person may be making false or misleading representations regarding deposit insurance in violation of § 328.102(b), the FDIC may issue an advisory letter to such person and/or any person who aids or abets another in such conduct, including any Third-Party Publisher. Generally, such an advisory letter will:

(1) Alert the recipient of advisory letter of the basis for the FDIC’s concerns;

(2) Request that the person and/or Third-Party Publisher:

(i) Take reasonable steps to prevent any violations of section 18(a) of the FDIA (12 U.S.C. 1828(a)) and this subpart;

(ii) commit in writing to refrain from such violations in the future; and

(iii) notify the FDIC in writing that the identified concerns have been fully addressed and remediated; and

(3) Offer the person or Third-Party Publisher the opportunity to provide additional information, documentation, or justifications to substantiate the representations made or otherwise refute the FDIC’s expressed concerns.

(b) Except in cases where the FDIC has reason to believe that consumers or Insured Depository Institutions may suffer harm arising from continued violations, recipients of advisory letters described in paragraph (a) of this section, shall be provided not less than fifteen (15) days to provide the

(b) Venue—Unless the person who is the subject of the enforcement action consents to a different location, the venue for an administrative action

§ 328.108 False or Misleading Representations.

(a) Nothing in this section shall prevent the FDIC from commencing a formal enforcement action under § 328.107 at any time before or after the issuance of an advisory letter under this section if:

(1) The FDIC has reason to believe that consumers or Insured Depository Institutions may suffer harm arising from continued violations; or

(2) the person to whom such an advisory letter would be sent has previously received a similar advisory letter from the FDIC under § 328.106(a).

(b) The FDIC may take steps to notify the appropriate Federal banking agency or an institution-affiliated party of such an institution, that appears to violate section 18(a) of the FDIA (12 U.S.C. 1828(a)), the FDIC may notify FDIC’s Office of Inspector General for referral to the appropriate criminal law enforcement authority. In the case of conduct by a Regulated Institution for which another Federal banking agency is the appropriate Federal banking agency or an institution-affiliated party of such an institution, the General Counsel may not bring an enforcement action against such a Regulated Institution without the prior written consent of the Federal banking agency for which such Regulated Institution is the appropriate Federal banking agency.

(c) Where a recipient of an advisory letter described in paragraph (a) of this section, fails to respond to the letter; fails to make the requested commitments; or fails to provide additional information, documentation, or justifications that the FDIC, in its discretion, finds adequate to substantiate the representations made or otherwise refute the concerns set forth in the advisory letter, the FDIC may pursue all remedies set forth in this subpart.

§ 328.109 False or Misleading Representations.

(a) The FDIC has reason to believe that any person may be making false or misleading representations regarding deposit insurance in violation of § 328.102(b), the FDIC may issue an advisory letter to such a person and/or any person who aids or abets another in such conduct, including any Third-Party Publisher. Generally, such an advisory letter will:

(1) Alert the recipient of advisory letter of the basis for the FDIC’s concerns;

(2) Request that the person and/or Third-Party Publisher:

(i) Take reasonable steps to prevent any violations of section 18(a) of the FDIA (12 U.S.C. 1828(a)) and this subpart;

(ii) commit in writing to refrain from such violations in the future; and

(iii) notify the FDIC in writing that the identified concerns have been fully addressed and remediated; and

(3) Offer the person or Third-Party Publisher the opportunity to provide additional information, documentation, or justifications to substantiate the representations made or otherwise refute the FDIC’s expressed concerns.

(b) Except in cases where the FDIC has reason to believe that consumers or Insured Depository Institutions may suffer harm arising from continued violations, recipients of advisory letters described in paragraph (a) of this section, shall be provided not less than fifteen (15) days to provide the requested commitment, explanation, or justification.
DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39
[Docket No. FAA–2021–0338; Project Identifier AD–2020–01423–T]

RIN 2120–AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for certain The Boeing Company Model 787–8 and 787–9 airplanes. This proposed AD was prompted by reports that shimming requirements were not met during the assembly of certain structural joints, which can result in reduced fatigue thresholds and cracking of the affected structural joints. This proposed AD would require repetitive inspections for cracking of certain areas of the aft wheel well bulkhead (AWWB) body chord and AWWB side fitting and failsafe straps, and repair of any cracking found. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by June 24, 2021.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.35, the FAA will post all comments as described in 14 CFR 11.43 and 11.45, by any of the following methods:

• Federal eRulemaking Portal: Go to https://www.regulations.gov. Follow the instructions for submitting comments.

• Fax: 202–493–2251.

• Mail: U.S. Department of Transportation, Docket Operations, M–10, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590.

• Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminster Blvd., MC 110–SK57, Seal Beach, CA 90740–5600; telephone 562–797–1717; internet https://www.myboeingfleet.com. You may view this referenced service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 Southwest 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195. It is also available on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0338.

Examining the AD Docket
You may examine the AD docket on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0338; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this NPRM, any comments received, and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT: Greg Rutar, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3529; email: Greg.Rutar@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA–2021–0338; Project Identifier AD–2020–01423–T” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend the proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments we receive, without change, to https://www.regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each
The FAA has received no definitive data on which to base the cost estimates for the on-condition repairs specified in this proposed AD.

**Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce.

This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in Boeing Alert Requirements Bulletins B787–81205–SB530077–00 RB and B787–81205–SB530078–00 RB, both Issue 001, both dated September 8, 2020, except for any differences identified as exceptions in the regulatory text of this proposed AD.

For information on the procedures and compliance times, see this service information at [https://www.regulations.gov](https://www.regulations.gov) by searching for and locating Docket No. FAA–2021–0338.

### Estimated Costs for Required Actions

<table>
<thead>
<tr>
<th>Action</th>
<th>Labor cost</th>
<th>Parts cost</th>
<th>Cost per product</th>
<th>Cost on U.S. operators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetitive inspections ..........</td>
<td>16 work-hours × $85 per hour = $1,360 per inspection cycle</td>
<td>$0</td>
<td>$1,360 per inspection cycle</td>
<td>$107,440 per inspection cycle</td>
</tr>
</tbody>
</table>

The FAA estimates the following costs to comply with this proposed AD:

- **Regulatory Findings**
  - The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the
States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:
1. Is not a "significant regulatory action" under Executive Order 12866, (2) Would not affect intrastate aviation in Alaska, and
3. Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39
Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment
Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:
Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:


(a) Comments Due Date
The FAA must receive comments on this airworthiness directive (AD) by June 24, 2021.

(b) Affected ADs
None.

c) Applicability
This AD applies to The Boeing Company Model 787–8 and 787–9 airplanes, certificated in any category, as identified in Boeing Alert Requirements Bulletins B787–81205–SB530077–00 and B787–81205–SB530078–00, both Issue 001, both dated September 8, 2020.

(d) Subject
Air Transport Association (ATA) of America Code 53, Fuselage.

(e) Unsafe Condition
This AD was prompted by reports that shimming requirements were not met during the assembly of certain aft wheel well bulkhead (AWWB) structural joints, which can result in reduced fatigue thresholds and cracking of the affected structural joints. The FAA is issuing this AD to address undetected fatigue cracking, which could weaken primary structure so it cannot sustain limit load, and could result in reduced structural integrity of the airplane.

(f) Compliance
Comply with this AD within the compliance times specified, unless already done.

(g) Required Actions
Except as specified by paragraph (h) of this AD: At the applicable times specified in the “Compliance” paragraph of Boeing Alert Requirements Bulletins B787–81205–SB530077–00 RB and B787–81205–SB530078–00 RB, both Issue 001, both dated September 8, 2020, do all applicable actions identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletins B787–81205–SB530077–00 RB and B787–81205–SB530078–00 RB, both Issue 001, both dated September 8, 2020.

Note 1 to paragraph (g):
Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletins B787–81205–SB530077–00 and B787–81205–SB530078–00, both Issue 001, both dated September 8, 2020, which are referred to in Boeing Alert Requirements Bulletins B787–81205–SB530077–00 RB and B787–81205–SB530078–00 RB, both Issue 001, both dated September 8, 2020.

(h) Exceptions to Service Information Specifications
(1) Where Boeing Alert Requirements Bulletin B787–81205–SB530077–00 RB, Issue 001, dated September 8, 2020, uses the phrase "the effective date of this AD.
(2) Where Boeing Alert Requirements Bulletin B787–81205–SB530078–00 RB, Issue 001, dated September 8, 2020, uses the phrase "the effective date of this AD.

(i) Alternative Methods of Compliance (AMOCs)
(1) The Manager, Seattle ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (j)(1) of this AD. Information may be emailed to: 9-ANN-Seattle-ACO-AMOC-Requests@faa.gov.
(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(3) An AMOC that provides an acceptable level of safety may be used for any repair, modification, or alteration required by this AD if it is approved by The Boeing Company Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(j) Related Information
(1) For more information about this AD, contact Greg Rutar, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3529; email: Greg.Rutar@faa.gov.
(2) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminister Blvd., MC 110–SK57, Seal Beach, CA 90740–5600; telephone 562–797–1717; internet https://www.myboeingfleet.com. You may view this referenced service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195.

Issued on April 20, 2021.

Dane T. Grant,
Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021–09345 Filed 5–7–21; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA–2021–0348; Project Identifier 2018–SW–076–AD]

RIN 2120–AA64

Airworthiness Directives; Leonardo S.p.a. (Type Certificate Previously Held by Agusta S.p.A.) Helicopters

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to supersede Airworthiness Directive (AD) 2011–18–52 for certain Agusta S.p.A. (now Leonardo S.p.A.) Model AB139 and AW139 helicopters. AD 2011–18–52 requires revising the life limit for certain part-numbered tail rotor (T/R) blades, updating the helicopter’s historical records, repetitively inspecting each T/R blade for a crack or damage, and depending on the results, replacing the T/R blade. Since the FAA

"
issued AD 2011–18–52, the manufacturer developed improved T/R blades using different materials and established life limits for each improved blade. This proposed AD would retain certain requirements from AD 2011–18–52, revise certain requirements from AD 2011–18–52, and expand the applicability to include the newly-designed T/R blades. The actions of this proposed AD are intended to address an unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by June 24, 2021.

ADDRESSES: You may send comments by any of the following methods:
- **Federal eRulemaking Docket:** Go to [https://www.regulations.gov](https://www.regulations.gov). Follow the online instructions for sending your comments electronically.
- **Fax:** (202) 493–2251.
- **Mail:** Send comments to the U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590–0001.
- **Hand Delivery:** Deliver to the “Mail” address between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Leonardo S.p.a. Helicopters, Emanuele Bufano, Head of Airworthiness, Viale G Agusta 520, 21017 C Costas di Samara (Va) Italy; telephone +39–0331–225074; fax +39–0331–229046; or at [https://www.leonardocompany.com/en/home](https://www.leonardocompany.com/en/home). You may view this service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222–5110.

Examining the AD Docket
You may examine the AD docket on the internet at [https://www.regulations.gov](https://www.regulations.gov) by searching for and locating Docket No. FAA–2021–0348; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the European Aviation Safety Agency (now European Union Aviation Safety Agency) (EASA) AD, any comments received and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT: Matt Fuller, AD Program Manager, Operational Safety Branch, Airworthiness Products Section, General Aviation & Rotorcraft Unit, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222–5110; email Matthew.Fuller@faa.gov.

**SUPPLEMENTARY INFORMATION:**

**Comments Invited**

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA–2021–0348; Project Identifier 2018–SW–076–AD” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to [https://www.regulations.gov](https://www.regulations.gov), including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this proposal.

**Confidential Business Information**

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to, Matt Fuller, AD Program Manager, Operational Safety Branch, Airworthiness Products Section, General Aviation & Rotorcraft Unit, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222–5110; email Matthew.Fuller@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

**Background**

The FAA issued Emergency AD 2011–18–52 on August 25, 2011, which was published as a Final rule; request for comments, on April 18, 2012 (77 FR 23109) (AD 2011–18–52). AD 2011–18–52 applies to Agusta S.p.a. (now Leonardo S.p.a.) Model AB139 and AW139 helicopters with a T/R blade part number (P/N) 3G6410A00131 or P/N 4G6410A00131 installed. AD 2011–18–52 requires, within 5 hours time-in-service (TIS), establishing a life limit of 600 hours TIS or 1,500 takeoff and landing cycles (cycles), whichever occurs first, on the affected T/R blades and updating the helicopter’s historical records. If a T/R blade’s total number of cycles is unknown, determining the T/R blade cycles by multiplying the T/R blade’s hours TIS by 4 is required. For a T/R blade that, on the effective date of the AD, has already exceeded 600 hours TIS or 1,500 cycles, the AD requires replacing the T/R blade with an airworthy T/R blade within 5 hours TIS.

AD 2011–18–52 also requires, within 25 hours TIS, and thereafter at intervals not to exceed 25 hours TIS, inspecting the T/R blade for a crack or damage that exceeds the limits of the applicable maintenance manual. The inspection must be accomplished using a mirror, magnifying glass (5X or greater), and light source; or borescope. If there is a crack, or if there is damage that exceeds the limits of the applicable maintenance manual, AD 2011–18–52 requires, before further flight, replacing the T/R blade with an airworthy T/R blade.

AD 2011–18–52 was prompted by a fatal accident involving an Agusta Model AW139 helicopter, which may have been caused by cracks in a T/R blade. EASA, which is the Technical Agent for the Member States of the European Union, issued EASA Emergency AD 2011–0156–E, dated August 25, 2011 (EASA AD 2011–0156–E) to require repetitive inspections and reducing the life limit of the T/R blades. According to EASA, this condition, if not detected and corrected, could result in failure of a T/R blade and subsequent loss of control of the helicopter.

**Actions Since AD 2011–18–52 Was Issued**

Since the FAA issued AD 2011–18–52, EASA issued a series of ADs as follows:
- **EASA AD 2012–0030,** dated February 17, 2012 (EASA AD 2012–0030), which superseded Emergency AD 2011–0156–E, advised that the manufacturer developed improved, newly-designed T/R blades P/N 3G6410A00132 and P/N 4G6410A00132, established life limits for each improved T/R blade, added repetitive inspections for the improved T/R blades, and advised that each T/R
blade P/N had its own individual life limit.
• EASA AD 2012–0076, dated May 2, 2012 (EASA AD 2012–0076), which superseded EASA AD 2012–0030 and was issued after the manufacturer developed another version of improved T/R blades P/N 3G6410A00131 and P/N 4G6410A00133 with different materials. AD 2012–0076 required interim life limits for the new improved version of the T/R blades while also retaining the inspection requirements of EASA AD 2012–0030.
• EASA AD 2012–0076R1, dated July 13, 2012 (EASA AD 2012–0076R1), which revised EASA AD 2012–0076 after a modification was developed to allow installation of certain part-numbered T/R blades under certain conditions.
• EASA AD 2012–0076R2, dated February 20, 2014 (EASA AD 2012–0076R2), which revised EASA AD 2012–0076R1, was issued after another modification was developed. EASA AD 2012–0076R2 requires removing the 25 hours TIS inspection of certain part-numbered T/R blades, extending the life limit of certain part-numbered T/R blades, retaining the repetitive inspections of certain part-numbered T/R blades and depending on the inspection results, performing certain applicable corrections.

Also, after AD 2011–18–52 was issued, the FAA issued an NPRM (78 FR 54596), which published in the Federal Register on September 5, 2013. The NPRM proposed to require retaining the inspection requirements for certain part-numbered blades and expand the applicability to include the newly designed blades and establish life limits for those blades. The NPRM also proposed to require replacing any cracked blade or any blade that has reached its life limit. That NPRM was prompted by improved modifications of the T/R blades. However, because the FAA determined that the NPRM does not adequately address the identified unsafe condition, the NPRM was withdrawn on February 25, 2021 (86 FR 11477).

Additional review also revealed necessary changes to address the unsafe condition. This proposed AD clarifies the repetitive inspection for T/R blade P/Ns 3G6410A00131 and P/N 4G6410A00131 from, “visually inspect the T/R blade for a crack or damage” to “visually inspect the T/R blade for a crack and damage.” This proposed AD further revises that repetitive inspection from “damage that exceeds the limits of the applicable maintenance manual” to “damage that exceeds allowable limits” to meet current publishing requirements. This proposed AD clarifies the inspection area for that repetitive inspection by proposing to require using a figure in the related service information instead of using a figure in the body of this AD action. This proposed AD also revises the requirements by removing unnecessary information, including the special flight permits paragraph.

FAA’s Determination
These helicopters have been approved by EASA and are approved for operation in the United States. Pursuant to the FAA’s bilateral agreement with the European Union, EASA has notified the FAA of the unsafe condition described in its AD. The FAA is proposing this AD after evaluating all known relevant information and determining that an unsafe condition is likely to exist or develop on other helicopters of the same type design.

Related Service Information Under 1 CFR Part 51
The FAA reviewed AgustaWestland S.p.A Mandatory Bollettino Tecnico No. 139–265, Revision B, dated February 18, 2014. This service information specifies a precautionary inspection for a crack, a life limit for the affected T/R blades, and a quarantine of T/R blades that have exceeded their life limit. This service information also provides instructions for mixed usage of the affected T/R blades and sending certain data to the manufacturer.

This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

Proposed AD Requirements
This proposed AD would retain the inspection requirements of AD 2011–18–52 for certain part-numbered T/R blades, expand the applicability to include the improved T/R blades, require determining each T/R blade’s total hours TIS or landing cycles, and establish life limits for certain T/R blades. This proposed AD would require removing from service any T/R blade that has a crack or damage beyond allowable limits or any T/R blade that has reached its life limit.

Differences Between This Proposed AD and EASA AD
The EASA AD does not list the T/R blade life limits and instead references the Airworthiness Limitations Section of 139 AMPi Chapter 4, while this proposed AD would include the life limits in the AD. The EASA AD requires reporting information to Product Support Engineering, whereas this proposed AD would not. The EASA AD requires contacting AgustaWestland if a crack or damage is found during the inspection, whereas this proposed AD would require removing the T/R blade from service.

Costs of Compliance
The FAA estimates that this proposed AD would affect 130 helicopters of U.S. Registry. The FAA estimates that operators may incur the following costs in order to comply with this proposed AD. Labor costs are estimated at $85 per work-hour.

Inspecting one T/R blade for a crack would take about 1 work-hour for an estimated cost of $85 per T/R blade per inspection cycle and up to $44,200 for the U.S. fleet per inspection cycle.

Replacing one T/R blade would take about 8 work-hours and parts would cost about $40,560 for an estimated cost of $41,240 per replacement.

Authority for This Rulemaking
Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle II, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings
The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed, I certify this proposed regulation:
1. Is not a “significant regulatory action” under Executive Order 12866, 2. Would not affect intrastate aviation in Alaska, and
PART 39—AIRWORTHINESS DIRECTIVES

§ 39.131 [Amended]

The FAA amends § 39.13 by:

a. Removing Airworthiness Directive 2011–18–52, Amendment 39–17020 (77 FR 23109, April 18, 2012); and
b. Adding the following new airworthiness directive:


(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) action by June 24, 2021.

(b) Affected ADs

This AD applies to Leonardo S.p.a. (type certificate previously held by Agusta S.p.A.) Model AB139 and AW139 helicopters, certificated in any category, with tail rotor (T/R) blade, part number (P/N) 3G6410A00131, 3G6410A00132, 3G6410A00133, 4G6410A00131, 4G6410A00132, or 4G6410A00133, installed.

(d) Subject

Joint Aircraft Service Component (JASC) Code: 6410, Tail Rotor Blades.

(e) Unsafe Condition

This AD defines the unsafe condition as a crack in a T/R blade. This condition could result in failure of a T/R blade and subsequent loss of control of the helicopter.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Required Actions

(1) For T/R blade P/Ns 3G6410A00131 and 4G6410A00131, within 5 hours time-in-service (TIS) after May 3, 2012 (the effective date of AD 2011–18–52), establish a life limit of 600 hours TIS or 1,500 takeoff and landing cycles (cycles), whichever occurs first, on the affected T/R blades and update the helicopter’s historical records. If a T/R blade’s total number of cycles is unknown, determine the T/R blade cycles by multiplying the T/R blade’s hours TIS by 4. For T/R blade P/Ns 3G6410A00131 and 4G6410A00131, thereafter following paragraph (g)(1) of this AD, remove any T/R blade from service before accumulating 600 total hours TIS or 1,500 total cycles, whichever occurs first.

(2) For T/R blade P/Ns 3G6410A00132, 3G6410A00133, 4G6410A00132, and 4G6410A00133, within 5 hours TIS after the effective date of this AD, determine the total number of cycles. If a T/R blade’s total number of cycles is unknown, determine the T/R blade cycles by multiplying the blade’s hours TIS by 4. Before further flight, remove any T/R blade from service that has accumulated or exceeded its life limit as follows. Thereafter, remove any T/R blade from service before accumulating its life limit as follows:

(i) T/R blade P/N 3G6410A00132 and 4G6410A00132: 1,200 total hours TIS or 3,200 total cycles, whichever occurs first.

(ii) T/R blade P/N 3G6410A00133: 40,000 total cycles.

(iii) T/R blade P/N 4G6410A00133: 4,033 total hours TIS or 40,000 cycles, whichever occurs first.

Note 1 to paragraph (g)(3):

A combination of T/R blades having different P/Ns can be installed on the same helicopter. The eligible combinations of T/R blades P/N are listed in AgustaWestland S.p.A. Mandatory Bollettino Tecnico No. 139–265, Revision B, dated February 18, 2014 (BT No. 139–265).

(4) For T/R blade P/Ns 3G6410A00131 and P/N 4G6410A00131, within 25 hours TIS after the effective date of this AD, and thereafter at intervals not to exceed 25 hours TIS, visually inspect the T/R blade for a crack and damage that exceeds allowable limits. Inspect in the area depicted in Figure 1 of BT No. 139–265 using a mirror, a 5X or higher power magnifying glass, and a flashlight, or borescope. If there is a crack or damage that exceeds allowable limits, before further flight, remove the T/R blade from service.

(5) As of the effective date of this AD, do not install on any helicopter any T/R blade P/N 3G6410A00131 or P/N 4G6410A00131, unless the actions required by paragraphs (g)(1), (2), and (4) of this AD have been accomplished.

(h) Alternative Methods of Compliance (AMOCs)

(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, send it to the attention of the person identified in paragraph (i)(1) of this AD. Information may be emailed to: email 9-AVS- AIR-T36-AMOCs@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/ certificate holding district office.

(i) Related Information

(1) For more information about this AD, contact Matt Fuller, AD Program Manager, Operational Safety Branch, Airworthiness Products Section, General Aviation & Rotorcraft Unit, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222–5110; email matthew.fuller@faa.gov.


Issued on April 30, 2021.

Lance T. Gant,
Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021–09759 Filed 5–7–21; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39


RIN 2120–AA64

Airworthiness Directives; Airbus Helicopters

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Supplemental notice of proposed rulemaking (SNPRM).

SUMMARY: The FAA is revising a notice of proposed rulemaking (NPRM) that applied to certain Airbus Helicopters Model EC225LP helicopters. This action revises the NPRM by revising the required actions paragraph such that the required actions apply to all helicopter models specified in the applicability. The FAA is proposing this airworthiness directive (AD) to address the unsafe condition on these products. Since these actions would impose an additional burden over those in the NPRM, the agency is requesting comments on this SNPRM.
DATES: The FAA must receive comments on this SNPRM by June 24, 2021. ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:  
* Federal eRulemaking Portal: Go to https://www.regulations.gov. Follow the instructions for submitting comments.  
* Fax: (202) 493–2251.  
* Hand Delivery: Deliver to Mail address between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.  

For service information identified in this SNPRM, contact Airbus Helicopters, 2701 N Forum Drive, Grand Prairie, TX 75052; telephone (972) 641–0000 or 800–232–0323; fax (972) 641–3775; or at https://www.airbus.com/ helicopters/services/technical-support.html. You may view this service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222–5110.

Examining the AD Docket  
You may examine the AD docket at https://www.regulations.gov by searching for and locating Docket No. FAA–2020–0904; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains the NPRM, this SNPRM, the European Union Aviation Safety Agency (EASA) AD, any comments received, and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT:  
James Blyn, Aviation Safety Engineer, Strategic Policy Emerging Aircraft Section, Policy and Innovation Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222–5110; email james.blyn@faa.gov.

SUPPLEMENTARY INFORMATION:  
Comments Invited  
The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA–2020–0904; Product Identifier 2019–SW–041–AD” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may again revise this proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to https://www.regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this proposed AD.

Confidential Business Information  
CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this SNPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this SNPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this SNPRM. Submissions containing CBI should be sent to James Blyn, Aviation Safety Engineer, Strategic Policy Emerging Aircraft Section, Policy and Innovation Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222–5110; email james.blyn@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background  
The FAA issued an NPRM to amend 14 CFR part 39 by adding an AD that would apply to Airbus Helicopters Model EC225LP helicopters, with left-hand side (LH) engine fuel supply (fuel supply) hose part number (P/N) 704A34416087 installed. The NPRM published in the Federal Register on October 7, 2020, (85 FR 63235). For helicopters delivered to the first operator before November 30, 2018, and for helicopters delivered to the first operator on or after November 30, 2018, that have had the LH fuel supply hose replaced or reinstalled before May 10, 2019, the FAA proposed to require visually inspecting the LH fuel supply hose for twisting, and if needed, borescope inspecting the entire length of the inside of the fuel supply hose for twisting. Depending on the inspection results, the NPRM proposed to require reinstalling or removing the fuel supply hose from service. Additionally, the NPRM proposed to prohibit installing a certain part-numbered LH fuel supply hose on any helicopter unless that LH fuel supply hose is installed by following certain procedures specified in the manufacturer’s service bulletin.

The proposed requirements were intended to prevent a decrease of the LH engine power when accelerating to a power setting corresponding to One Engine Inoperative (OEI) power and subsequent reduced control of the helicopter. The NPRM was prompted by EASA AD 2019–0092, dated April 26, 2019 (EASA AD 2019–0092), issued by EASA, which is the Technical Agent for the Member States of the European Union, to correct an unsafe condition for Airbus Helicopters (formerly Eurocopter) Model EC 225 LP helicopters, all serial numbers. EASA advises that an occurrence was reported where during an in-flight single engine power check, the LH side engine experienced a power loss. EASA states that a subsequent investigation determined that the fuel flow to the affected engine was restricted by a twisted fuel supply hose. EASA states that this condition, if not detected and corrected, could lead to a decrease of the LH engine power when accelerating to the power setting corresponding to OEI power, and subsequent reduced control of the helicopter. Accordingly, the EASA AD requires a one-time visual inspection of the fuel supply hose and depending on the inspection results, removing from service or replacing the affected part. EASA also introduces re-installation requirements for a fuel supply hose that is being replaced or reinstalled.

Actions Since the NPRM Was Issued  
Since the NPRM was issued, the FAA determined that operators may not have the information required to comply with the required actions proposed in the NPRM. Operators may not know the date the helicopter was delivered to the first operator. Additionally, operators may not know whether the LH fuel supply hose has been previously removed or reinstalled since the maintenance regulations do not require certain operators to maintain these records after one year. Accordingly, the FAA has determined the proposed paragraph (e)(1) of the NPRM must be revised by deleting the language referring to delivery dates and dates of LH fuel supply hose replacement or
reinstallation. As a result of these changes, all helicopters specified in the applicability paragraph would be required to comply with the required actions in this proposed AD. Also, since the NPRM was issued, the FAA has determined that a limit on special flight permits is required. This SNPRM reflects this change that special flight permits may be permitted provided that there are no passengers on board.

Comments

The FAA received no comments on the NPRM or on the determination of the cost.

FAA’s Determination

These helicopters have been approved by EASA and are approved for operation in the United States. Pursuant to the FAA’s bilateral agreement with the European Union, EASA has notified the FAA about the unsafe condition described in its AD. The FAA is proposing this AD after determining the unsafe condition described previously is likely to exist or develop in other helicopters of these same type designs. Certain changes described above expand the scope of the NPRM. As a result, it is necessary to reopen the comment period to provide additional opportunity for the public to comment on this SNPRM.

Related Service Information Under 1 CFR Part 51

The FAA reviewed Airbus Helicopters Alert Service Bulletin No. EC225–71A019, Revision 1, dated February 28, 2019, which specifies procedures for removing the fuel supply hose from the LH power plant, visually inspecting the fuel supply hose for twisting, and depending on inspection results, performing an endoscope inspection on the inside of the hose. This service information also specifies procedures required to install a serviceable fuel supply hose.

This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

Proposed AD Requirements in This SNPRM

For helicopters with a certain part-numbered LH fuel supply hose installed, this proposed AD would require visually inspecting the LH fuel supply hose for twisting, and if needed, borescope inspecting the entire length of the inside of the fuel supply hose for twisting. Depending on the inspection results, this proposed AD would require reinstalling or removing the fuel supply hose from service. Additionally, this proposed AD would prohibit installing a certain part-numbered LH fuel supply hose on any helicopter unless that LH fuel supply hose is installed by following certain procedures described in the manufacturer’s service bulletin.

Differences Between This SNPRM and the EASA AD

The EASA AD requires compliance within 110 flight hours or 6 months, whichever occurs first, while this proposed AD would require compliance within 110 hours time-in-service after the effective date of this AD. The EASA AD requires reporting information to Airbus Helicopters if the LH fuel supply hose is twisted on the inside, while this proposed AD would not. Additionally, the EASA AD is applicable to certain aircraft delivered to the first operator prior to 30 Nov 2018, and also to certain aircraft in which the affected part or LH engine were not replaced or reinstalled before the effective date of the EASA AD, whereas this proposed AD would apply to EC225LP helicopters with a certain LH fuel supply hose installed, because operators might not know when the helicopter was first delivered or what maintenance was previously performed.

Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 28 helicopters of U.S. Registry. Labor rates are estimated at $85 per work-hour. Based on these numbers, the FAA estimates the following costs to comply with this proposed AD. Visually inspecting the LH fuel supply hose for twisting would take about 1 work-hour for an estimated cost of $85 per helicopter and $2,380 for the U.S. fleet. Replacing a LH fuel supply hose would take about 8 work-hours and parts would cost about $2,278 for an estimated replacement cost of $2,958 per replacement. Borescope inspecting the LH fuel supply hose would take about 8 work-hours for an estimated cost of $85 per helicopter.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed, I certify this proposed regulation:

(1) Is not a “significant regulatory action” under Executive Order 12866,
(2) Would not affect intrastate aviation in Alaska, and
(3) Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:


(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) action by June 24, 2021.

(b) Affected ADs

None.
VerDate Sep<11>2014 16:59 May 07, 2021 Jkt 253001 PO 00000 Frm 00037 Fmt 4702 Sfmt 4702 E:\FR\FM\10MYP1.SGM 10MYP1khammond on DSKJM1Z7X2PROD with PROPOSALS

(c) Applicability
This AD applies to Airbus Helicopters Model EC225LP helicopters, certificated in any category, with a left-hand side (LH) engine fuel supply (fuel supply) hose part number P/N 704A34416087 installed.

(d) Subject

(e) Unsafe Condition
This AD was prompted by a report of an incorrect installation of the LH fuel supply hose P/N 704A34416087. The FAA is issuing this AD to prevent restricted fuel flow to the LH engine. The unsafe condition, if not addressed, could result in a decrease of the LH engine power when accelerating to a power setting corresponding to One Engine Inoperative power and subsequent reduced control of the helicopter.

(f) Compliance
Comply with this AD within the compliance times specified, unless already done.

(g) Required Actions
(1) Within 110 hours time-in-service (TIS) after the effective date of this AD, visually inspect the LH fuel supply hose for twisting as shown in Figures 1 and 2 of Airbus Helicopters Alert Service Bulletin No. EC225–71A019, Revision 1, dated February 28, 2019 (ASB EC225–71A019). If the LH fuel supply hose has any twisting, before further flight, borescope inspect the entire length of the inside of the fuel supply hose for twisting as shown in Figures 3 through 5 of ASB EC225–71A019.

(ii) If the inside of the LH fuel supply hose has any twisting, before further flight, remove the LH fuel supply hose from service and install an airworthy LH fuel supply hose by following the Accomplishment Instructions, paragraph 3.B.3.b, of ASB EC225–71A019.

(ii) If the LH fuel supply hose does not have any twisting, reinstall the LH fuel supply hose by following the Accomplishment Instructions, paragraph 3.B.3.b, of ASB EC225–71A019.

(h) Special Flight Permits
Special flight permits may be permitted provided that there are no passengers on board.

(i) Alternative Methods of Compliance (AMOCs)
(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, send it to the attention of the person identified in paragraph (j)(1) of this AD. Information may be emailed to: 9-ASV-AIR-730-AMOC@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(j) Related Information
(1) For more information about this AD, contact James Blyn, Aviation Safety Engineer, Strategic Policy Emerging Aircraft Section, Policy and Innovation Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222–5110; email 9-ASW-FTW-AMOC-Requests@faa.gov.

(2) For service information identified in this AD, contact Airbus Helicopters, 2701 N Forum Drive, Grand Prairie, TX 75052; telephone (972) 641–0000 or (800) 232–0323; fax (972) 641–3775; or at https://www.airbus.com/helicopters/services/technical-support.html. You may view the referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76171 N–321. For information on the availability of this material at the FAA, call (817) 222–5110.


* Issued on May 3, 2021.

Lance T. Gant,
Director, Compliance & Airworthiness Division, Aircraft Certification Service.
[FR Doc. 2021–09760 Filed 5–7–21; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
14 CFR Part 39
[Docket No. FAA–2021–0331; Project Identifier AD–2020–01703–T]
RIN 2120–AA64
Airworthiness Directives; The Boeing Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.
ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for all The Boeing Company Model 757 airplanes. This proposed AD was prompted by significant changes, including new or more restrictive requirements, made to the airworthiness limitations (AWLs) related to fuel tank ignition prevention and the nitrogen generation system. This proposed AD would require revising the existing maintenance or inspection program, as applicable, to incorporate new or more restrictive airworthiness limitations. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by June 24, 2021.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:
• Federal eRulemaking Portal: Go to https://www.regulations.gov. Follow the instructions for submitting comments.
• Fax: 202–493–2251.
• Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminster Blvd., MC 110–SK57, Seal Beach, CA 90740–5600; telephone 562–797–1717; internet https://www.myboeingfleet.com. You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195.

Examine the AD Docket
You may examine the AD docket at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0331; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this NPRM, any comments received, and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT: Tak Kobayashi, Aerospace Engineer, Propulsion Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3553; email: takahisa.kobayashi@faa.gov.

SUPPLEMENTARY INFORMATION:
Comments Invited
The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No.
Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Proposed Rules 24787

FAA—2021–0331; Project Identifier AD–2020–01703–T” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to https://www.regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Tak Kobayashi, Aerospace Engineer, Propulsion Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3553; email: takahisa.kobayashi@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background

The FAA has examined the underlying safety issues involved in fuel tank explosions on several large transport airplanes, including the adequacy of existing regulations, the service history of airplanes subject to those regulations, and existing maintenance practices for fuel tank systems. As a result of those findings, the FAA issued a final rule titled “Transport Airplane Fuel Tank System Design, Flammability, Reduction, and Maintenance and Inspection Requirements” (66 FR 23086, May 7, 2001). In addition to new airworthiness standards for transport airplanes and new maintenance requirements that rule included Amendment 21–78, which established Special Federal Aviation Regulation No. 88 (“SFAR 88”) to 14 CFR part 21. Subsequently, SFAR 88 was amended by: Amendment 21–82 (67 FR 57490, September 10, 2002; corrected at 67 FR 70809, November 26, 2002), Amendment 21–83 (67 FR 72830, December 9, 2002; corrected at 68 FR 37735, June 25, 2003, to change “21–82” to “21–83”), and Amendment 21–101 (83 FR 9162, March 5, 2018). Among other actions, SFAR 88 requires certain type design (i.e., type certificate (TC) and supplemental type certificate (STC)) holders to substantiate that their fuel tank systems can prevent ignition sources in the fuel tanks. This requirement applies to type design holders for large turbine-powered transport airplanes and for subsequent modifications to those airplanes. It requires them to perform design reviews and to develop design changes and maintenance procedures if their designs do not meet the new fuel tank safety standards. As explained in the preamble to the final rule published on May 7, 2001, the FAA intended to adopt airworthiness directives to mandate any changes found necessary to address unsafe conditions identified as a result of these reviews.

In evaluating these design reviews, the FAA has established four criteria intended to define the unsafe conditions associated with fuel tank systems that require corrective actions. The percentage of operating time during which fuel tanks are exposed to flammable conditions is one of these criteria. The other three criteria address the failure types under evaluation: Single failures, single failures in combination with another latent condition(s), and in-service failure experience. For all four criteria, the evaluations included consideration of previous actions taken that may mitigate the need for further action.

The FAA issued AD 2012–12–15, Amendment 39–17095 (77 FR 42964, July 23, 2012) (AD 2012–12–15), which applies to all The Boeing Company Model 757 airplanes. AD 2012–12–15 requires revising the maintenance or inspection program to incorporate AWLs. Incorporating the revision required by this proposed AD would terminate all the requirements of AD 2012–12–15.

The FAA also issued AD 2018–20–13, Amendment 29–19447 (83 FR 52305, October 9, 2018) (AD 2018–20–13), which applies to all The Boeing Company Model 757 airplanes; Model 737 airplanes, excluding Model 737–100, –200, –200C, –300, –400, and –500 series airplanes; and Model 767–200, –300, –300F, and –400ER series airplanes. For Model 757 airplanes, AD 2018–20–13 requires, among other things, revising the maintenance or inspection program to incorporate AWLs. The FAA issued AD 2012–12–15, those AWLs have been revised, therefore, this proposed AD would require the incorporation of those revised AWLs. Incorporating the revision required by this proposed AD would terminate the requirements in paragraph (i)(2) of AD 2018–20–13.

The FAA has assessed the changes, including new or more restrictive requirements, that were made to the AWLs related to fuel tank ignition prevention and the nitrogen generation system. The FAA is issuing this AD to address ignition sources inside the fuel tanks and the increased flammability exposure of the center fuel tank caused by latent failures, alterations, repairs, or maintenance actions, which could result in a fuel tank explosion and consequent loss of an airplane.

FAA’s Determination

The FAA is issuing this NPRM after determining that the unsafe condition described previously is likely to exist or develop on other products of the same type design.

Related Service Information Under 1 CFR Part 51

The FAA reviewed Section 9, Airworthiness Limitations (AWLs) and Certification Maintenance Requirements (CMRs), of Boeing 757 Maintenance Planning Data (MPD) Document, D622N001–9, dated March 2020. This service information specifies airworthiness limitation instruction (AL) and critical design configuration control limitation (CDCL) tasks related to fuel tank ignition prevention and the nitrogen generation system.
This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in ADDRESSES.

Proposed AD Requirements in This NPRM

This proposed AD would require revising the existing maintenance or inspection program, as applicable, to incorporate new or more restrictive airworthiness limitations. This proposed AD would require revisions to certain operator maintenance documents to include new actions (e.g., inspections) and CDCCCLs. Compliance with these actions and CDCCCLs is required by 14 CFR 91.403(c). For airplanes that have been previously modified, altered, or repaired in the areas addressed by this proposed AD, the operator may not be able to accomplish the actions described in the revisions. In this situation, to comply with 14 CFR 91.403(c), the operator must request approval for an alternative method of compliance according to paragraph (k) of this proposed AD.

Differences Between This Proposed AD and the Service Information

Paragraph (g) of this proposed AD would require operators to revise their existing maintenance or inspection program by incorporating, in part, AWL No. 28–AWL–05, “Wire Separation Requirements for New Wiring Installed in Proximity to Wiring that Goes into the Fuel Tanks,” of Section 9, Airworthiness Limitations (AWLs) and Certification Maintenance Requirements (CMRs), of Boeing 757 Maintenance Planning Data (MPD) Document, D622N001–9, dated March 2020.

Paragraph (h) of this proposed AD would allow certain changes to be made to the requirements specified in AWL No. 28–AWL–05 at an option. Where AWL No. 28–AWL–05 identifies certain wire types for routing and installation of any new wiring under certain conditions, paragraph (h) of this proposed AD provides acceptable alternative wire types. Where AWL No. 28–AWL–05 identifies certain wire sleeve material for new wiring installed under certain conditions, paragraph (h) of this proposed AD provides acceptable alternative wire sleeve materials.

Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 493 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

The FAA has determined that revising the existing maintenance or inspection program takes an average of 90 work-hours per operator, although the agency recognizes that this number may vary from operator to operator. Since operators incorporate maintenance or inspection program changes for their affected fleet(s), the FAA has determined that a per-operator estimate is more accurate than a per-airplane estimate. Therefore, the FAA estimates the average total cost per operator to be $7,650 (90 work-hours × $85 per work-hour).

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

(1) Is not a “significant regulatory action” under Executive Order 12866,

(2) Would not affect intrastate aviation in Alaska, and

(3) Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

1 39.13 [Amended]

2. The FAA amends §39.13 by adding the following new airworthiness directive:


(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by June 24, 2021.

(b) Affected ADs

This AD affects the ADs specified in paragraphs (b)(1) and (2) of this AD.


(c) Applicability

This AD applies to all The Boeing Company Model 757–200, –200PF, –200CB, and –300 series airplanes, certificated in any category.

(d) Subject

Air Transport Association (ATA) of America Code 28, Fuel.

(e) Unsafe Condition

This AD was prompted by significant changes, including new or more restrictive requirements, made to the airworthiness limitations (AWLs) related to fuel tank ignition prevention and the nitrogen generation system. The FAA is issuing this AD to address ignition sources inside the fuel tanks and the increased flammability exposure of the center fuel tank caused by latent failures, alterations, repairs, or maintenance actions, which could result in a fuel tank explosion and consequent loss of an airplane.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Maintenance or Inspection Program Revision

Within 60 days after the effective date of this AD, revise the existing maintenance or inspection program, as applicable, to incorporate the information specified in Section E, “Airworthiness Limitations—Systems,” including Subsections E.1 and E.3, of Section 9, Airworthiness Limitations (AWLs) and Certification Maintenance...
Cushion Clamps and Teflon Sleeving

Later.

AWL No. 28–AWL–30, whichever occurs

or within 72 months after the most recent

installation, Main and Center Tank’’: Within

Pump Fault Current Bonding Jumper

later.

AWL No. 47–AWL–04, ‘‘NGS—

NEA Distribution Ducting’’: Within 17,300

flight hours after the most recent inspection

was performed as specified in AWL No. 47–

AWL–04; whichever occurs later.

(11) For AWL No. 47–AWL–07, ‘‘NGS—

Cross Vent Check Valve’’: Within 17,300

flight hours after accomplishment of the

actions specified in Boeing Service Bulletin

757–47–0001 or Boeing Service Bulletin 757–

47–0005, as applicable; or within 17,300

flight hours after the most recent inspection

was performed as specified in AWL No. 47–

AWL–05; whichever occurs later.

(2) The requirements in paragraph (i)(2) of

this AD if it is approved by The Boeing Company

Organization Designation Authorization

(ODA) that has been authorized by the

Manager, Seattle ACO Branch, FAA, to make

those findings. To be approved, the repair

method, modification deviation, or alteration

development must meet the certification basis of

the airplane, and the approval must

specifically refer to this AD.

(5) The Manager, Seattle ACO Branch,

FAA, has the authority to approve AMOCs

for this AD, if requested using the procedures

found in 14 CFR 39.19. In accordance with

14 CFR 39.19, send your request to your

principal inspector or responsible Flight

Standards Office, as appropriate. If sending

information directly to the manager of the

certification office, send it to the attention of

the person identified in Related Information.

Information may be emailed to: 9-ANM-

Seattle-A CO-AMOC-Requests@faa.gov.

(2) Before using any approved AMOC,

notify your appropriate principal inspector,

or lacking a principal inspector, the manager

of the responsible Flight Standards Office.

(3) An AMOC that provides an acceptable

level of safety may be used for any repair,

modification, or alteration required by this

AD if it is approved by The Boeing Company

Organizational Certification Authorization

(OCA) that has been authorized by the

Manager, Seattle ACO Branch, FAA, to make

those findings. To be approved, the repair

method, modification deviation, or alteration

development must meet the certification basis of

the airplane, and the approval must

specifically refer to this AD.

(1) Related Information

(1) For more information about this AD,

contact Tak Kobayashi, Aerospace Engineer,

Propulsion Section, FAA, Seattle ACO

Branch, 2200 South 216th St., Des Moines,

WA 98198; phone and fax: 206–231–3553;

e-mail: takahisa.kobayashi@faa.gov.

(2) For service information identified in

this AD, contact Boeing Commercial

Airplanes, Attention: Contractual & Data

Services (C&Ds), 2600 Westminster Blvd.,

MC 110–SK57, Seal Beach, CA 90740–5600;

telephone 562–797–1717; internet

https://www.myboeingfleet.com. You may view this

documented service information at the FAA,

Airworthiness Products Section, Operational

Safety Branch, 2200 South 216th St., Des

Moines, WA. For information on the

availability of this material at the FAA, call

206–231–3195.

Issued on April 15, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness

Division, Aircraft Certification Service.

[FR Doc. 2021–09761 Filed 5–7–21; 8:45 am]

BILLING CODE 4910–13–P
DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

14 CFR Part 39
RIN 2120–AA64

Airworthiness Directives; Airbus SAS Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for all Airbus SAS Model A330–841 and –941 airplanes. This proposed AD was prompted by reports of missing or disbonded pressure seals on two thrust reverser (TR) translating cowlws. This proposed AD would require a one-time inspection of each thrust reverser for damage, seal bonding rework, and replacement of translating cowl pressure seals if necessary, as specified in a European Union Aviation Safety Agency (EASA) AD, which is proposed for incorporation by reference. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by June 24, 2021.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

• Federal eRulemaking Portal: Go to https://www.regulations.gov. Follow the instructions for submitting comments.

• Fax: 202–493–2251.


• Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For material that will be incorporated by reference (IBR) in this AD, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADs@easa.europa.eu; internet www.easa.europa.eu. You may find this IBR material on the EASA website at https://ad.easa.europa.eu. You may view this IBR material at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195. It is also available in the AD docket on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0349.

Examining the AD Docket
You may examine the AD docket on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0349; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

The AD docket contains this NPRM, any comments received, and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT:
Vladimir Ulyanov, Aerospace Engineer, Large Aircraft Section, International Validation Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206–231–3229; email vladimir.ulyanov@faa.gov.

SUPPLEMENTARY INFORMATION:
Comments Invited
The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA–2021–0349; Project Identifier MCAI–2021–00103–T” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend the proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to https://www.regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this proposed AD.

Confidential Business Information
CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Vladimir Ulyanov, Aerospace Engineer, Large Aircraft Section, International Validation Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206–231–3229; email vladimir.ulyanov@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background
The EASA, which is the Technical Agent for the Member States of the European Union, has issued EASA AD 2021–0035, dated January 25, 2021 (EASA AD 2021–0035) (also referred to as the Mandatory Continuing Airworthiness Information, or the MCAI), to correct an unsafe condition for all Airbus SAS Model A330–841 and –941 airplanes. This proposed AD was prompted by reports of missing or disbonded pressure seals on two TR translating cowls. An investigation determined that the issue is due to surface preparation not being properly performed during seal installation. The FAA is proposing this AD to address missing or disbonded TR translating cowl seal segments.

In a case where all seal segments were missing, this condition, if not addressed, could lead to loss of thrust at maximum continuous thrust or at takeoff/go-around, possibly resulting in substantially reduced performance of the airplane. See the MCAI for additional background information.

Related Service Information Under 1 CFR Part 51
EASA AD 2021–0035 describes procedures for inspecting the each thrust reverser for damage (including tears, cracks, unwanted sealant on the contact surface, missing pieces, worn-out seals, or glass or ceramic ply that is not impacted), reworking the pressure seal bonding, and replacing damaged translating cowl pressure seals.

This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

FAA’s Determination and Requirements of This Proposed AD
This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to the
FAA’s bilateral agreement with the State of Design Authority, the FAA has been notified of the unsafe condition described in the MCAI referenced above. The FAA is proposing this AD because the FAA evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

Proposed AD Requirements

This proposed AD would require accomplishing the actions specified in EASA AD 2021–0035 described previously, as incorporated by reference, except for any differences identified as exceptions in the regulatory text of this AD.

Explanation of Required Compliance Information

In the FAA’s ongoing efforts to improve the efficiency of the AD process, the FAA initially worked with Airbus and EASA to develop a process to use certain EASA ADs as the primary source of information for compliance with requirements for corresponding FAA ADs. The FAA has since coordinated with other manufacturers and civil aviation authorities (CAAs) to use this process. As a result, EASA AD 2021–0035 will be incorporated by reference in the FAA final rule. This proposed AD would, therefore, require compliance with EASA AD 2021–0035 in its entirety, through that incorporation, except for any differences identified as exceptions in the regulatory text of this proposed AD. Using common terms that are the same as the heading of a particular section in the EASA AD does not mean that operators need comply only with that section. For example, where the AD requirement refers to “all required actions and compliance times,” compliance with this AD requirement is not limited to the section titled “Required Action(s) and Compliance Time(s)” in the EASA AD. Service information specified in EASA AD 2021–0035 that is required for compliance with EASA AD 2021–0035 will be available on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0349 after the FAA final rule is published.

Costs of Compliance

The FAA estimates that this proposed AD affects 8 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

<table>
<thead>
<tr>
<th>ESTIMATED COSTS FOR REQUIRED ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor cost</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>7 work-hours × $85 per hour = $595 (per thrust reverser)</td>
</tr>
</tbody>
</table>

The FAA estimates the following costs to do any necessary on-condition action that would be required based on the results of any required actions. The FAA has no way of determining the number of aircraft that might need these on-condition actions:

<table>
<thead>
<tr>
<th>ESTIMATED COSTS OF ON-CONDITION ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor cost</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>22 work-hours × $85 per hour = $1,870 (per thrust reverser)</td>
</tr>
</tbody>
</table>

According to the manufacturer, some or all of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected operators. The FAA does not control warranty coverage for affected operators. As a result, the FAA has included all known costs in the cost estimate.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

(1) Is not a “significant regulatory action” under Executive Order 12866,

(2) Would not affect intrastate aviation in Alaska, and

(3) Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.
§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:


(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by June 24, 2021.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Airbus SAS Model A330–841 and –941 airplanes, certificated in any category.

(d) Subject

Air Transport Association (ATA) of America Code 78, Engine exhaust.

(e) Reason

This AD was prompted by reports of missing or disbonded pressure seals on two thrust reverser (TR) translating cowl. The FAA is issuing this AD to address missing or disbonded TR translating cowl seal segments. In a case where all seal segments were missing, this condition, if not addressed, could lead to loss of thrust at maximum continuous thrust or at takeoff/go-around, possibly resulting in substantially reduced performance of the airplane.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Requirements

Except as specified in paragraph (b) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, European Union Aviation Safety Agency (EASA) AD 2021–0035, dated January 25, 2021 (EASA AD 2021–0035).

(h) Exceptions to EASA AD 2021–0035

(1) Where EASA AD 2021–0035 refers to its effective date, this AD requires the use of certain information, and any final disposition in the Dockets Office between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays.

(2) For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, Large Aircraft Section, International Validation Branch, FAA, 2200 South 216th St., Des Moines, IA 50312; telephone (515) 272–2672; email vladimir.ulyanov@faa.gov.

(i) No Reporting Requirement

Although the service information referenced in EASA AD 2021–0035 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Large Aircraft Section, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the Large Aircraft Section, International Validation Branch, send it to the attention of the person identified in paragraph (k)(2) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, Large Aircraft Section, International Validation Branch, FAA; or EASA; or Airbus SAS’s EASA Design Organization Authorization (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): Except as required by paragraph (j)(2) of this AD, if any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator’s maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(k) Related Information

(1) For information about EASA AD 2021–0035 contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 9999 00; email ADs@easa.europa.eu; internet www.easa.europa.eu. You may find this EASA AD on the EASA website at https://ad.easa.europa.eu. You may view this material at the Airbus Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195. This material may be found in the AD docket on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2021–0349.

(2) For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, Large Aircraft Section, International Validation Branch, FAA, 2200 South 216th St., Des Moines, WA 50312; telephone and fax 206–231–3229; email vladimir.ulyanov@faa.gov.

Issued on May 4, 2021.

Lance T. Gant,
Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[Docket No. FAA–2021–0035; Docket No. 21–AGL–19]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71

[9-AVS-AIR-730-AMOC@faa.gov]

Proposed Revocation of Class E Airspace; Standish, MI

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to revoke the Class E airspace extending upward from 700 feet above the surface at Standish Industrial Airport, Standish, MI. The FAA is proposing this action as the result of an airspace review caused by the closing of the Standish Industrial Airport and associated instrument procedures no longer required.

DATES: Comments must be received on or before June 24, 2021.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590; telephone (202) 366–9826, or (800) 647–5527. You must identify FAA Docket No. FAA–2021–0277/Airspace Docket No. 21–AGL–19, at the beginning of your comments. You may also submit comments through the internet at https://www.regulations.gov. You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays.

FAA Order 7400.1E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/airtraffic/publications/. For further information, you can contact the Airspace Policy Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783. The Order is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA Order 7400.1E at NARA, email fedreg.legal@nara.gov or go to https://www.archives.gov/federal-register/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT: Rebecca Shelby, Federal Aviation Administration, Operations Support Group, Central Service Center, 10101
Hillwood Parkway, Fort Worth, TX 76177; telephone (817) 222–5857.

SUPPLEMENTARY INFORMATION:
Authority for This Rulemaking

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would revoke the Class E airspace extending upward from 700 feet above the surface at Standish Industrial Airport, Standish, MI, due to the closure of the airport and cancellation of the instrument procedures at this airport.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments, as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal. Communications should identify both docket numbers and be submitted in triplicate to the address listed above. Commenters wishing the FAA to acknowledge receipt of their comments on this notice must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to Docket No. FAA–2021–0277/Airspace Docket No. 21–AGL–19.” The postcard will be date/time stamped and returned to the commenter.

All communications received before the specified closing date for comments will be considered before taking action on the proposed rule. The proposal contained in this notice may be changed in light of the comments received. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRMs

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/. You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office (see the ADDRESSES section for the address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays. An informal docket may also be examined during normal business hours at the Federal Aviation Administration, Air Traffic Organization, Central Service Center, Operations Support Group, 10101 Hillwood Parkway, Fort Worth, TX 76177.

Availability and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 1, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

The Proposal

The FAA is proposing an amendment to 14 CFR part 71 by revoking the Class E airspace extending upward from 700 feet above the surface to at Standish Industrial Airport, Standish, MI. This action is the result of an airspace review due to the closing of the Standish Industrial Airport, Standish, MI, and cancellation of the instrument procedures at this airport.

Class E airspace designations are published in paragraph 6005 of FAA Order 7400.11E, dated July 1, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The Class E airspace designations listed in this document will be published subsequently in the Order.

FAA Order 7400.11E, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current, is non-controversial and unlikely to result in adverse or negative comments. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under DOT Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this rule, when promulgated, would not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

Accordingly, pursuant to the authority delegated to me, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS


§71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated August 8, 2019, and effective September 15, 2019, is amended as follows:

Paragraph 6005 Class E Airspace Areas Extending Upward From 700 Feet or More Above the Surface of the Earth.
AGL MI E5  Standish, MI [Removed]

Issued in Fort Worth, Texas, on April 29, 2021.

Martin A. Skinner,
Manager, Operations Support Group, ATO Central Service Center.

[FR Doc. 2021–09477 Filed 5–7–21; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

14 CFR Part 71

[Docket No. FAA–2021–0324; Airspace Docket No. 21–AGL–9]

RIN 2120–AA66

Proposed Amendment of V–37 and V–270; Removal of V–43 in the Vicinity of Erie, PA

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to amend two VHF Omnidirectional Range (VOR) Federal airways and remove one VOR Federal airway in the vicinity of Erie, Pennsylvania. The FAA proposes this action due to the planned decommissioning of the VOR portion of the Erie, PA, VOR/Tactical Air Navigation (VORTAC) that these airways utilize for navigation guidance. The Erie VOR is being decommissioned as part of the FAA’s VOR Minimum Operational Network (MON) program.

DATES: Comments must be received on or before June 24, 2021.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, 1200 New Jersey Avenue SE, West Building Ground Floor, Room W12–140, Washington, DC 20590; telephone: (800) 647–5527, or (202) 366–9826. You must identify FAA Docket No. FAA–2021–0324; Airspace Docket No. 21–AGL–9 at the beginning of your comments. You may also submit comments through the internet at https://www.regulations.gov. FAA Order 7400.11E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/air_traffic/publications/. For further information, you can contact the Rules and Regulations Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783. The Ordinal is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA Order 7400.11E at NARA, email: fedreg_legal@nara.gov or go to https://www.archives.gov/federal-register/cfr/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT: Jesse Acevedo, Rules and Regulations Group, Office of Policy, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

SUPPLEMENTARY INFORMATION:

Authority for This Rulemaking

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of the airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would modify the route structure as necessary to preserve the safe and efficient flow of air traffic within the National Airspace System.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal.

Communications should identify both docket numbers (FAA Docket No. FAA–2021–0324; Airspace Docket No. 21–AGL–9) and be submitted in triplicate to the Docket Management Facility (see ADDRESSES section for address and phone number). You may also submit comments through the internet at https://www.regulations.gov.

Commenters wishing the FAA to acknowledge receipt of their comments on this action must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to FAA Docket No. FAA–2021–0324; Airspace Docket No. FAA–2021–0324, ” The postcard will be date/time stamped and returned to the commenter.

All communications received on or before the specified comment closing date will be considered before taking action on the proposed rule. The proposal contained in this action may be changed in light of comments received. All comments submitted will be available for examination in the public docket both before and after the comment closing date. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRMs

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received and any final disposition in person in the Dockets Office (see ADDRESSES section for address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except Federal holidays. An informal docket may also be examined during normal business hours at the office of the Operations Support Group, Central Service Center, Federal Aviation Administration, 10101 Hillwood Parkway, Fort Worth, TX, 76177.

Availability and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

Background

The FAA is planning to decommission the VOR portion of the Erie, PA, VORTAC. This VOR was one of the candidate VORs identified for discontinuance by the FAA’s VOR MON program and listed in the final policy statement notice, “Provision of Navigation Services for the Next Generation Air Transportation System (NextGen) Transition to Performance-Based Navigation (PBN) (Plan for Establishing a VOR Minimum Operational Network),” published in the
Although the VOR portion of the Eric VORTAC is planned for decommissioning, the co-located DME portion of the navigational aid is being retained in support of current and future Area Navigation (RNAV) procedures. The tactical air navigation (TACAN) system is also being retained to support the Department of Defense mission requirements.

The VOR Federal airways affected by the Erie VOR are V–37, V–270, and V–43. With the planned decommissioning of the VOR portion of the Erie VORTAC, the remaining navigational aids in the area are insufficient to enable the continuity of the affected airways. As such, the proposal would result in the shortening of V–37 and V–270, and would result in the revocation of V–43. To overcome the shortening and removal of the proposed airways, pilots using RNAV could navigate point to point utilizing the fixes that would be retained or request air traffic control radar vectors through the area. Additionally, visual flight rules (VFR) pilots who elect to navigate via the affected airways could also take advantage of the air traffic control (ATC) services previously listed.

The Proposal

The FAA is proposing an amendment to 14 CFR part 71 to amend V–37 and V–270, and revoke V–43, in the vicinity of Erie, PA. This is required due to the planned decommissioning of the VOR portion of the Erie, PA, VORTAC. The proposed airway changes are described below.

V–37: V–37 currently extends between the Craig, FL, VORTAC and the Erie, PA VORTAC. The FAA proposes to remove the airway segment between the Ellwood City, PA, VOR/DME and the Erie VORTAC. As a result, the amended airway would extend between the Craig VORTAC and the Ellwood City VOR/DME.

V–270: V–270 currently extends between the Erie, PA, VORTAC and the Jamestown, NY, VOR/DME; and between the Elmira, NY, VOR/DME and the Boston, MA, VOR/DME. The FAA proposes to remove the airway segment between the Erie VORTAC and the Jamestown VOR/DME. As a result, the amended airway would extend between the Elmira VOR/DME and the Boston VOR/DME.

V–43: V–43 currently extends between the Youngstown, OH, VORTAC and the Erie, PA, VORTAC. The FAA proposes to remove V–43 in its entirety.

All radials in the VOR Federal airway descriptions below are unchanged and stated in True degrees.

Domestic VOR Federal airways are published in paragraph 6010(a) of FAA Order 7400.11E, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The VOR Federal airways listed in this document would be subsequently published in the Order.

FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this proposed regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under Department of Transportation (DOT) Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this proposed rule, when promulgated, will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

In consideration of the foregoing, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

1. The authority citation for part 71 continues to read as follows:


§ 71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, is amended as follows:

Paragraph 6010(a) Domestic VOR Federal Airways.

V–37 [Amended]

From Craig, FL; Brunswick, GA; INT Brunswick 014° and Savannah, GA, 177° radials; Savannah; Allendale, SC; Columbia, SC; Charlotte, NC; Pulaski, VA; Elkins, WV; Clarksburg, WV; INT Clarksburg 359° and Ellwood City, PA, 185° radials; to Ellwood City.

V–43 [Removed]

V–270 [Amended]

From Elmira, NY; Binghamton, NY; DeLancey, NY; Chester, MA; INT Chester 091° and Boston, MA, 262° radials; to Boston.

Issued in Washington, DC, on April 30, 2021.

George Gonzalez,
Acting Manager, Rules and Regulations Group.

[FR Doc. 2021–09668 Filed 5–7–21; 8:45 am]

BILLING CODE 4910–13–P
the surface for Wellstone York Hospital Heliport, York, PA, to accommodate new area navigation (RNAV) global positioning system (GPS) standard instrument approach procedures serving the heliport. Controlled airspace is necessary for the safety and management of instrument flight rules (IFR) operations in the area.

**Comments Invited**

Interested persons are invited to comment on this proposed rulemaking by submitting such written data, views, or arguments, as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal.

Communications should identify both docket numbers (Docket No. FAA—2021–0119 and Airspace Docket No. 21–AEA–3) and be submitted in triplicate to DOT Docket Operations (see ADDRESSES section for the address and phone number). You may also submit comments through the internet at https://www.regulations.gov.

**FOR FURTHER INFORMATION CONTACT:** John Fornito, Operations Support Group, Eastern Service Center, Federal Aviation Administration, 1701 Columbia Avenue, College Park, GA 30337; Telephone: (404) 305–6364.

**SUPPLEMENTARY INFORMATION:**

**Authority for This Rulemaking**

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority, as it would amend and establish Class E airspace in York, PA, to support IFR operations in the area.

**Availability of NPRMs**

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received and any final disposition in person in the Dockets Office (see the ADDRESSES section for address and phone number) between 9:30 a.m. and 5:00 p.m., Monday through Friday, except federal holidays. An informal docket may also be examined between 8:00 a.m. and 4:30 p.m., Monday through Friday, except federal holidays at the office of the Eastern Service Center, Federal Aviation Administration, Room 350, 1701 Columbia Avenue, College Park, GA 30337.

**Availability and Summary of Documents for Incorporation by Reference**

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

**The Proposal**

The FAA proposes an amendment to 14 CFR part 71 to amend Class E surface airspace by increasing the radius to 6.8 miles (previously 6.5 miles) at York Airport, York, PA. This action would also update the airports name. This action would also establish Class E airspace upward from 700 feet above the surface at York Airport, York, PA, and establish Class E airspace upward from 700 feet above the surface at Wellstone York Hospital Heliport, York, PA, providing the controlled airspace required to support the new RNAV (GPS) standard instrument approach procedures for IFR operations serving them respectively.

Class E airspace designations are published in Paragraph 6005, of FAA Order 7400.11E, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The Class E airspace designations listed in this document will be published subsequently in the Order. FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

**Regulatory Notices and Analyses**

The FAA has determined that this proposed regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under DOT Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a Regulatory Evaluation
as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this proposed rule, when promulgated, will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures”, prior to any FAA final regulatory action.

Lists of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

In consideration of the foregoing, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

■ 1. The authority citation for part 71 continues to read as follows:


§ 71.1 [Amended]

■ 2. The incorporation by reference in 14 CFR 71.1 of Federal Aviation Administration Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, is amended as follows:

Paragraph 6002 Class E Surface Airspace.

AEA PA E2 York, PA [Amend]

York Airport, PA

(Lat. 39°55′01″ N, long. 76°52′23″ W)

That airspace extending upward from the surface within a 6.8-mile radius of the York Airport.

Paragraph 6005 Class E Airspace Areas Extending Upward From 700 Feet Or More Above the Surface of the Earth.

AEA PA E5 York, PA [New]

York Airport, PA

(Lat. 39°55′01″ N, long. 76°52′23″ W)

Wellstone York Hospital Heliport, PA

(Lat. 39°56′41″ N, long. 76°43′06″ W)

That airspace extending upward from 700 feet above the surface within a 9.3-mile radius of York Airport, and within 4.0 miles each side of the 339° bearing from the airport, extending from the 9.3-mile radius to 11.9 miles northwest of the airport, and that airspace extending upward from 700 feet above the surface within a 6-mile radius of Wellstone York Hospital Heliport.

Issued in College Park, Georgia, on May 3, 2021.

Andreese C. Davis,
Manager, Airspace & Procedures Team South, Eastern Service Center, Air Traffic Organization.

[FR Doc. 2021–09815 Filed 5–7–21; 8:45 am]

BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71

[Docket No. FAA–2021–0235; Airspace Docket No. 21–AGL–18]

RIN 2120–AA66

Proposed Revocation of Class E Airspace; Port Huron, MI

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to revoke the Class E surface airspace at St. Clair County International Airport, Port Huron, MI. The FAA is proposing this action as the result of an airspace review caused by the decommissioning of the Remote Communications Outlet (RCO) frequency at St. Clair County International Airport.

DATES: Comments must be received on or before June 24, 2021.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590; telephone (202) 366–9826, or (800) 647–5527. You must identify FAA Docket No. FAA–2021–0235/Airspace Docket No. 21–AGL–18 at the beginning of your comments. You may also submit comments through the internet at https://www.regulations.gov. You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays.

FAA Order 7400.11E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/air_traffic/publications/. For further information, you can contact the Airspace Policy Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783. The Order is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA Order 7400.11E at NARA, email: fedreg.legal@nara.gov or go to https://www.archives.gov/federal-register/cfr/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT:

Rebecca Shelby, Federal Aviation Administration, Operations Support Group, Central Service Center, 10101 Hillwood Parkway, Fort Worth, TX 76177; telephone (817) 222–5857.

SUPPLEMENTARY INFORMATION:

Authority for This Rulemaking

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would revoke the Class E surface airspace at St. Clair County International Airport.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments, as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal. Communications should identify both docket numbers and be submitted in triplicate to the address listed above. Commenters wishing the FAA to acknowledge receipt of their comments on this notice must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to Docket No. FAA–2021–0235/Airspace Docket No. 21–AGL–18.” The postcard will be date/time stamped and returned to the commenter.
will be considered before taking action on the proposed rule. The proposal contained in this notice may be changed in light of the comments received. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRMs

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office (see the ADDRESSES section for the address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays. An informal docket may also be examined during normal business hours at the Federal Aviation Administration, Air Traffic Organization, Central Service Center, Operations Support Group, 10101 Hillwood Parkway, Fort Worth, TX 76177.

Availability and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

The Proposed Amendment

The FAA is proposing an amendment to 14 CFR part 71 by removing the Class E surface area at St. Clair County International Airport as it is no longer required.

This action is necessary due to an airspace review caused by the decommissioning of the RCO, which provided navigation information for the instrument procedures this airport.

Class E airspace designations are published in paragraph 6002 respectively, of FAA Order 7400.11E, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The Class E airspace designation listed in this document will be published subsequently in the Order.

FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current, is non-controversial and unlikely to result in adverse or negative comments. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under DOT Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this rule, when promulgated, would not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

Accordingly, pursuant to the authority delegated to me, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—CLASSIFICATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

1. The authority citation for 14 CFR part 71 continues to read as follows:


§ 71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, is amended as follows:

Paragraph 6002  Class E Surface Airspace.

AGL MI E2  Port Huron, MI [Revoked]
St. Clair County International Airport, MI (Lat. 42°54′39″ N, long. 82°31′44″ W)
Issued in Fort Worth, Texas, on April 29, 2021.
Martin A. Skinner,
Manager, Operations Support Group, ATO Central Service Center.

DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

14 CFR Part 71


RIN 2120–AA66

Proposed Amendment of Area Navigation (RNAV) T–348 and Establishment of T–409; Northcentral United States

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to amend one RNAV route and establish one new RNAV route, in the northcentral United States. The proposal would expand the availability of RNAV routing in support of transitioning the National Airspace System (NAS) from ground-based to satellite-based navigation.

DATES: Comments must be received on or before June 24, 2021.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, 1200 New Jersey Avenue SE, West Building Ground Floor, Room W12–140, Washington, DC 20590; telephone: (800) 647–5527, or (202) 366–9826. You must identify FAA Docket No. FAA–2021–0288; Airspace Docket No. 21–AGL–6 at the beginning of your comments. You may also submit comments through the internet at https://www.regulations.gov. FAA Order 7400.11E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/air_traffic/publications/. For further information, you can contact the Rules and Regulations Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8763. The Order is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA
Order 7400.11E at NARA, email: fedreg.legal@nara.gov or go to https://www.archives.gov/federal-register/cfr/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT: Jesse Acevedo, Rules and Regulations Group, Office of Policy, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

SUPPLEMENTARY INFORMATION:

Authority for This Rulemaking

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of the airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would modify the route structure as necessary to preserve the safe and efficient flow of air traffic within the National Airspace System.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal.

Communications should identify both docket numbers (FAA Docket No. FAA–2021–0288; Airspace Docket No. 21–AGL–6) and be submitted in triplicate to the Docket Management Facility (see AGL–6) and be submitted in triplicate to the Docket Management Facility (see AGL–6) and be submitted in triplicate to docket numbers (FAA Docket No. FAA–2021–0288; Airspace Docket No. 21–AGL–6). Postcards may also be examined during normal business hours at the office of the Operations Support Group, Central Service Center, Federal Aviation Administration, 10101 Hillwood Parkway, Fort Worth, TX 76177.

Availability and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

Background

In support of FAA-led modernization efforts to improve the safety, efficiency, and predictability of the national airspace, as well as transition the NAS from a ground-based to a satellite-based Performance Based Navigation (PBN) system, the FAA is proposing to amend RNAV route T–348 by extending it to provide additional PBN enroute structure, and establish RNAV route T–409. This action would reduce air traffic control (ATC) sector workload and complexity, reduce pilot-to-controller communication, and assist ATC when non-radar procedures are required. These RNAV routes would be available for use by any aircraft equipped with Global Positioning Satellite (GPS) and/or RNAV navigation capabilities.

Additionally, both RNAV route proposals have transiting legs that pass through the Lake Andes Military Operations Areas (MOA). This would provide cost, fuel, and time saving benefits for aircraft transiting the MOA when the MOA is not in use.

The Proposal

The FAA is proposing an amendment to 14 CFR part 71 to amend RNAV route T–348 and establish RNAV route T–409. The proposed route changes are described below.

T–348: T–348 currently extends between the BRAIN, MN, waypoint (WP) and the LUNGS, WI, WP. The FAA proposes to extend the route westward between the LESNR, SD, WP and the BRAIN, MN, WP. As a result of the addition of the proposed segment, the BRAIN WP would remain in place but would no longer be referenced in the legal description. The new proposed route would flow from the LESNR WP, through the TECUD, SD, fix and Sioux Falls, SD, VOR/Tactical Air Navigation (VORTAC), to the GRSIS, MN, WP onward. The resulting RNAV route would extend between the LESNR WP and the LUNGS WP.

T–409: T–409 is a proposed new route that would extend between the LLUKY, NE, WP and the Pierre, SD, VORTAC. This route would mitigate the loss of the V–71 airway segments removed on September 10, 2020 due to the decommissioning of the Winner, SD, VOR.

All radials in the RNAV T-route descriptions below are unchanged and stated in True degrees.

United States Area Navigation routes are published in paragraph 6011 of FAA Order 7400.11E, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The RNAV routes listed in this document would be subsequently published in the Order.

FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this proposed regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore: (1) Is not a “significant regulatory action” under Executive
Order 12866; (2) is not a “significant rule” under Department of Transportation (DOT) Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this proposed rule, when promulgated, will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

In consideration of the foregoing, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

1. The authority citation for part 71 continues to read as follows:


§71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, is amended as follows:

Paragraph 6011 United States Area Navigation Routes.

* * * * *

T–348 LESNR, SD to LUNGS, WI [Amended]

LESNR, SD WP (Lat. 43°29′16.49″ N, long. 099°45′41.00″ W)
TECU9, SD FIX (Lat. 43°32′54.48″ N, long. 097°51′42.23″ W)
Sioux Falls, SD (FSD) VORTAC (Lat. 43°38′58.14″ N, long. 096°46′52.02″ W)
GRSIS, MN WP (Lat. 43°38′45.54″ N, long. 094°25′21.17″ W)
FOOLS, MN WP (Lat. 43°46′58.20″ N, long. 092°35′44.93″ W)
GABDE, MN WP (Lat. 43°38′50.04″ N, long. 092°18′26.46″ W)
KRKTR, IA WP (Lat. 43°16′18.12″ N, long. 091°22′30.62″ W)
Madison, WI (MSN) VORTAC (Lat. 43°08′41.41″ N, long. 089°20′22.91″ W)
LUNGS, WI WP (Lat. 43°02′43.66″ N, long. 088°56′54.86″ W)

* * * * *

T–409 LLUKY, NE to Pierre, SD (PIR) [New]

LLUKY, NE WP (Lat. 42°29′20.26″ N, long. 098°38′11.44″ W)
ADEDY, SD FIX (Lat. 43°03′05.06″ N, long. 099°17′41.35″ W)
LESNR, SD WP (Lat. 43°29′16.49″ N, long. 099°45′41.00″ W)
Pierre, SD (PIR) VORTAC (Lat. 44°23′40.40″ N, long. 100°09′46.11″ W)

* * * * *

Issued in Washington, DC, on May 4, 2021.

George Gonzalez,
Acting Manager, Rules and Regulations Group.

[FR Doc. 2021–09757 Filed 5–7–21; 8:45 am]

BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71


RIN 2120–AA66

Proposed Amendment of Class E Airspace; Pocahontas, IA

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to amend the Class E airspace extending upward from 700 feet above the surface at Pocahontas Municipal Airport, Pocahontas, IA. The FAA is proposing this action as the result of an airspace review caused by the decommissioning of the Pocahontas non-directional beacon (NDB).

DATES: Comments must be received on or before June 24, 2021.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590; telephone (202) 366–9826, or (800) 647–5527. You must identify FAA Docket No. FAA–2021–0278/Airspace Docket No. 21–ACE–10, at the beginning of your comments. You may also submit comments through the internet at https://www.regulations.gov. You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays.

FAA Order 7400.11E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/air_traffic/publications/. For further information, you can contact the Airspace Policy Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783. The Order is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA Order 7400.11E at NARA, email fedreg.legal@nara.gov or go to https://www.archives.gov/federal-register/cfr/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT:
Rebecca Shelby, Federal Aviation Administration, Operations Support Group, Central Service Center, 10101 Hillwood Parkway, Fort Worth, TX 76177; telephone (817) 222–5857.

SUPPLEMENTARY INFORMATION:

Authority for This Rulemaking

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would amend the Class E airspace extending upward from 700 feet above the surface at Pocahontas Municipal Airport, IA, to support instrument flight rule operations at this airport.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking
by submitting such written data, views, or arguments, as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal.

Communications should identify both docket numbers and be submitted in triplicate to the address listed above. Commenters wishing the FAA to acknowledge receipt of their comments on this notice must submit those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to Docket No. FAA–2021–0278/Airspace Docket No. 21–ACE–10.” The postcard will be date/time stamped and returned to the commenter.

All communications received before the specified closing date for comments will be considered before taking action on the proposed rule. The proposal contained in this notice may be changed in light of the comments received. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRMs

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office (see the ADDRESSES section for the address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays. An informal docket may also be examined during normal business hours at the Federal Aviation Administration, Air Traffic Organization, Central Service Center, Operations Support Group, 10101 Hillwood Parkway, Fort Worth, TX 76177.

Availability and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

The Proposal

The FAA is proposing an amendment to 14 CFR part 71 by amending the Class E airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Pocahontas Municipal Airport, Pocahontas, IA; and removing the Pocahontas NDB and the associated extensions from the airspace legal description. This action is the result of an airspace review due to the decommissioning of the Pocahontas NDB which provided navigation information for the instrument procedures at this airport. Class E airspace designations are published in paragraph 6005 of FAA Order 7400.11E, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71. The Class E airspace designations listed in this document will be published subsequently in the Order. FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current, is non-controversial and unlikely to result in adverse or negative comments. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under DOT Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this rule, when promulgated, would not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

Accordingly, pursuant to the authority delegated to me, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

1. The authority citation for 14 CFR part 71 continues to read as follows:


§ 71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, is amended as follows:

Paragraph 6005  Class E Airspace Areas Extending Upward From 700 Feet or More Above the Surface of the Earth.

ACE IA E5 Pocahontas, IA [Amended]

Pocahontas Municipal Airport, IA (Lat. 42°44′34″ N, long. 94°38′50″ W)

That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Pocahontas Municipal Airport.

Issued in Fort Worth, Texas, on April 29, 2021.

Martin A. Skinner,
Manager, Operations Support Group, ATO Central Service Center.
[FR Doc. 2021–09480 Filed 5–7–21; 8:45 am]

BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71

[Docket No. FAA–2021–0294; Airspace Docket No. 20–ASO–31]

RIN 2120–AA66

Proposed Amendment and Removal of Air Traffic Service (ATS) Routes; Eastern United States

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to amend three jet routes, and remove four jet routes, in the eastern United States.
This action is in support of the Northeast Corridor Atlantic Coast Route Project to improve the efficiency of the National Airspace System (NAS) and reduce dependency on ground-based navigational systems.

DATES: Comments must be received on or before June 24, 2021.


FAA Order 7400.11E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/air_traffic/publications/. For further information, you can contact the Rules and Regulations Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783. The Order is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA Order 7400.11E at NARA, email: fedreg.legal@nara.gov or go to https://www.archives.gov/federal-register/cfr/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT: Paul Gallant, Rules and Regulations Group, Office of Policy, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

SUPPLEMENTARY INFORMATION: Authority for This Rulemaking

The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of the airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would modify the route structure as necessary to preserve the safe and efficient flow of air traffic within the NAS.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal. Communications should identify both docket numbers (FAA Docket No. FAA–2021–0294; Airspace Docket No. 20–ASO–31) and be submitted in triplicate to the Docket Management Facility (see ADDRESSES section for address and phone number). You may also submit comments through the internet at https://www.regulations.gov.

Commenters wishing the FAA to acknowledge receipt of their comments on this action must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to FAA Docket No. FAA–2021–0294; Airspace Docket No. 20–ASO–31.” The postcard will be date/time stamped and returned to the commenter.

All communications received on or before the specified comment closing date will be considered before taking action on the proposed rule. The proposal contained in this action may be changed in light of comments received. All comments submitted will be available for examination in the public docket both before and after the comment closing date. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRM

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received and any final disposition in person in the Dockets Office (see ADDRESSES section for address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except Federal holidays. An informal docket may also be examined during normal business hours at the office of the Eastern Service Center, Federal Aviation Administration, Room 210, 1701 Columbia Ave., College Park, GA 30337.

Availability and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

The Proposal

The FAA is proposing an amendment to 14 CFR part 71 to amend three jet routes, and remove four jet routes, in the eastern United States. This action would support the Northeast Corridor Atlantic Coast Route Project by amending and removing certain jet route segments that are being replaced by RNAV routing. Additionally, the proposed jet route changes would reduce aeronautical chart clutter by removing unneeded route segments.

The proposed route changes are as follows:

J–42: J–42 currently extends between the Delicias, Mexico, VOR/DME, and the Boston, MA, VOR/DME. This action would remove the segments between Texarkana, AR, and Boston, MA. The amended route would extend between Delicias, Mexico and Texarkana, AR. The portion within Mexico is excluded.

J–55: J–55 currently extends in, two parts, between the intersection of the Flat Rock, VA 212° and the Raleigh-Durham, NC, 224° radials, and the intersection of the Hopewell, VA, 030° and the Nottingham, MD 174° radials; and between the Sea Isle, NJ and Presque Isle, ME. The FAA proposes to remove the segments between Sea Isle, NJ and Presque Isle ME. The FAA amended route would extend from the intersection of the Flat Rock, VA 212° and the Raleigh-Durham, NC, 224° radials, and the intersection of the Hopewell, VA, 030° and the Nottingham, MD 174° radials.

J–150: J–150 extends between the Gordonsville, VA, VORTAC and the Marconi, MA, 082° and the Boston, MA, 097° radials (STOOL intersection). The FAA proposes to remove the entire route.

J–191: J–191 currently extends between the Robbinsville, NJ, VORTAC, and the Wilmington, NC, VORTAC. The FAA proposes to remove the segments between Robbinsville, NJ, and Patuxent,
The proposed amendment would extend between Hopewell, VA and Wilmington, NC. J–193: J–193 currently extends between the Wilmington, NC, VORTAC, and the intersection of the Harcum, VA, VORTAC 006° and Hopewell, VA, VORTAC 030° radials (HUBBS intersection). The FAA proposes to remove the entire route.

J–222: J–222 currently extends between the Robbinsville, NJ, VORTAC, and the Cambridge, NY, VOR/DME. The FAA proposes to remove the entire route.

J–225: J–225 currently extends between the Cedar Lake, NJ, VOR/DME, and the Providence, RI, VOR/DME. The FAA proposes to remove the entire route.

Jet routes are published in paragraph 2004, of FAA Order 7400.11E dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The jet routes listed in this document would be subsequently amended in, or removed, respectively, from the Order. FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this proposed regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant regulatory action” under Department of Transportation (DOT) Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this proposed rule, when promulgated, will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

In consideration of the foregoing, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

1. The authority citation for part 71 continues to read as follows:


§ 71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020 is amended as follows:

Paragraph 2004 Jet Routes.

J–42 [Amended]

From Delicias, Mexico, via Fort Stockton, TX; Abilene, TX; Ranger, TX; Texarkana, AR; excluding the portion in Mexico.

J–55 [Amended]

From INT Flat Rock, VA, 212° and Raleigh-Durham, NC, 224° radials; Raleigh-Durham; INT Raleigh-Durham 035° and Hopewell, VA, 234° radials; Hopewell; INT Hopewell 030° and Nottingham, MD, 174° radials.

J–150 [Remove]

J–191 [Amended]

From Hopewell, VA; to Wilmington, NC

J–193 [Remove]

J–222 [Remove]

J–225 [Remove]

Issued in Washington, DC, April 28, 2021.

George Gonzalez,
Acting Manager, Rules and Regulations Group.

[FR Doc. 2021–09311 Filed 5–7–21; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71


RIN 2120–AA66

Proposed Amendment of V–36 and V–316, and Revocation of V–180 Due to Planned Decommissioning of the Elliot Lake and Dryden Non-Directional Beacons (NDBs) Ontario, Canada

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This action proposes to amend 2 VHF Omnidirectional Range (VOR) Federal airways and remove one VOR Federal airway in the northeastern United States. The airway amendments are necessary due to the planned decommissioning of the Elliot Lake, Ontario, NDB and the Dryden, Ontario, Canada, NDB. Both NDBs are being decommissioned as part of NAV CANADA’s navigational aid (NAVAID) Modernization Program.

DATES: Comments must be received on or before June 24, 2021.

ADDRESSES: Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, 1200 New Jersey Avenue SE, West Building Ground Floor, Room W12–140, Washington, DC 20590; telephone: (800) 647–5527, or (202) 366–9826. You must identify FAA Docket No. FAA–2021–0279; Airspace Docket No. 21–AGL–13 at the beginning of your comments. You may also submit comments through the internet at https://www.regulations.gov. FAA Order 7400.11E, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at https://www.faa.gov/airtraffic/publications/. For further information, you can contact the Rules and Regulations Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783. The Order is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of FAA Order 7400.11E at NARA, email: fedreg.legal@nara.gov or go to https://www.archives.gov/federal-register/cfr/ibr-locations.html.

FOR FURTHER INFORMATION CONTACT: Jesse Acevedo, Rules and Regulations Group, Office of Policy, Federal Aviation Administration, 800
Supplemental information:
Authority for This Rulemaking
The FAA’s authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency’s authority. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of the airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it would modify the route structure as necessary to preserve the safe and efficient flow of air traffic within the National Airspace System.

Comments Invited
Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal.

Communications should identify both docket numbers (FAA Docket No. FAA–2021–0279; Airspace Docket No. 21–AGL–13) and be submitted in triplicate to the Docket Management Facility (see ADDRESSES section for address and phone number). You may also submit comments through the internet at https://www.regulations.gov. Commenters wishing the FAA to acknowledge receipt of their comments on this action must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to FAA Docket No. FAA–2021–0279; Airspace Docket No. 21–AGL–13.” The postcard will be date/time stamped and returned to the commenter.

All communications received on or before the specified comment closing date will be considered before taking action on the proposed rule. The proposal contained in this action may be changed in light of comments received. All comments submitted will be available for examination in the public docket both before and after the comment closing date. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRMs
An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received and any final disposition in person in the Dockets Office (see ADDRESSES section for address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except Federal holidays. An informal docket may also be examined during normal business hours at the office of the Operations Support Group, Central Service Center, Federal Aviation Administration, 10101 Hillwood Parkway, Fort Worth, TX 76177.

Availability and Summary of Documents for Incorporation by Reference
This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

Background
NAV CANADA, which operates Canada’s civil air navigation service, is implementing changes to Canada’s instrument flight rules (IFR) navigation infrastructure as part of their NAV-AID Modernization Program. This program is designed to enhance the efficiency of Canada’s flying operations by taking advantage of performance-based navigation and modern avionics capabilities. As such, changes implemented by NAV CANADA occasionally affect VOR Federal airways that extend across the United States/Canada border into the United States. NAV CANADA is planning to decommission the Elliot Lake and Dryden NDBs as part of their NAV-AID Modernization Program. As a result, amendments of V–36 and V–316, and the removal of V–180, are required to mirror changes that are planned to be made by NAV CANADA within Canadian airspace. To mitigate the deletion of V–36 and V–316 airway segments affected by the NDBs being decommissioned, IFR traffic may use adjacent VOR Federal airways, V–300 and V–348, or request air traffic control (ATC) radar vectors to fly around or through the affected area. To mitigate the deletion of V–180, IFR traffic may use adjacent VOR Federal airways, V–133 and V–367, or request ATC radar vectors to fly through or circumnavigate the affected area also. Aircraft with Area Navigation (RNAV) equipment may also navigate point to point using airspace fixes that will remain in place. Visual flight rules (VFR) pilots who elect to navigate via the airways through the affected area could also take advantage of the adjacent VOR Federal airways or ATC services listed previously.

The Proposal
The FAA is proposing an amendment to 14 CFR part 71 to amend V–36 and V–316, and remove V–180 due to the planned decommissioning of the Elliot Lake and Dryden NDBs, ON, Canada to mirror changes that are planned to be made by NAV CANADA within Canadian airspace. The proposed Federal airway amendments and removal are described below.

V–36: V–36 currently extends between the Thunder Bay, ON, Canada, VOR/DME and the intersection of the Wiarton, ON, Canada, VOR/DME 150° radial and Toronto, ON, Canada, VOR/DME 304° radial; and between the Buffalo, NY, VOR/DME and the intersection of the La Guardia, NY, VOR/DME 310° and Stillwater, NJ, VOR/DME 043° radials. The airspace within Canada is excluded. The FAA proposes to remove the airway segment between the Thunder Bay, ON, Canada, VOR/DME and Wawa, ON, Canada, VOR/DME. The FAA also proposes to remove the airway segment between the Sault Ste Marie, MI, VOR/DME and the intersection of the La Guardia, NY, VOR/DME 310° and Stillwater, NJ, VOR/DME 043° radials (NEION fix). The resulting airway would extend between the Wawa, ON, Canada, VOR/DME and the Sault Ste Marie, MI, VOR/DME; and between the Buffalo, NY, VOR/DME and the intersection of the La Guardia, NY, VOR/DME 310° and Stillwater, NJ, VOR/DME 043° radials (NEION fix).

Concurrent changes to other segments of V–36 have been proposed in a separate rulemaking proposal.

V–316: V–316 currently extends between the Ironwood, MI, VOR/DME and the Sawyer, MI, VOR/DME; and between the Sault Ste Marie, MI, VOR/DME and the Sudbury, ON, Canada, VOR/DME. The airspace in Canada is
excluded. The FAA proposes to delete the airway segment between the Sault Ste Marie, MI, VOR/DME and the Sudbury, ON, Canada, VOR/DME, and the exclusionary language. The resulting airway would extend between the Ironwood, MI, VOR/DME and the Dryden, ON, Canada, NDB. The airspace within Canada is excluded. The FAA proposes to remove the airway in its entirety.

All radials in the VOR Federal airway descriptions below are unchanged and stated in True degrees.

V–180: V–180 currently extends between the International Falls, MN, VOR/DME and the Dryden, ON, Canada, NDB. The airspace within Canada is excluded. The FAA proposes to remove the airway in its entirety.

The Proposed Amendment
In consideration of the foregoing, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

1. The authority citation for part 71 continues to read as follows:


§ 71.1 [Amended]

2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The VOR Federal airways listed in this document would be subsequently updated in the next edition of this Order.

FAA Order 7400.11, Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses
The FAA has determined that this proposed regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under Department of Transportation (DOT) Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this proposed rule, when promulgated, will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review
This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71
Airspace, Incorporation by reference, Navigation (air).
of airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority, as it would modify the Class E airspace at Shively Field Airport, Saratoga, WY, to support IFR operations at the airport.

Comments Invited

Interested parties are invited to participate in this proposed rulemaking by submitting such written data, views, or arguments, as they may desire. Comments that provide the factual basis supporting the views and suggestions presented are particularly helpful in developing reasoned regulatory decisions on the proposal. Comments are specifically invited on the overall regulatory, aeronautical, economic, environmental, and energy-related aspects of the proposal. Communications should identify both docket numbers and be submitted in triplicate to the address listed above. Persons wishing the FAA to acknowledge receipt of their comments on this notice must submit with those comments a self-addressed, stamped postcard on which the following statement is made: “Comments to Docket No. FAA–2021–0274; Airspace Docket No. 7400.11E.” The postcard will be date/time stamped and returned to the commenter.

All communications received before the specified closing date for comments will be considered before taking action on the proposed rule. The proposal contained in this notice may be changed on light of the comments received. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRMs

An electronic copy of this document may be downloaded through the internet at https://www.regulations.gov. Recently published rulemaking documents can also be accessed through the FAA’s web page at https://www.faa.gov/air_traffic/publications/airspace_amendments/.

You may review the public docket containing the proposal, any comments received, and any final disposition in person in the Dockets Office (see the ADDRESSES section for the address and phone number) between 9:00 a.m. and 5:00 p.m., Monday through Friday, except federal holidays. An informal docket may also be examined during normal business hours at the Northwest Mountain Regional Office of the Federal Aviation Administration, Air Traffic Organization, Western Service Center, Operations Support Group, 2200 S 216th Street, Des Moines, WA 98198.

Availibility and Summary of Documents for Incorporation by Reference

This document proposes to amend FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020. FAA Order 7400.11E is publicly available as listed in the ADDRESSES section of this document. FAA Order 7400.11E lists Class A, B, C, D, and E airspace areas, traffic service routes, and reporting points.

The Proposal

The FAA is proposing an amendment to 14 CFR part 71 by modifying the Class E airspace, extending upward from 700 feet above the surface, at Shively Field Airport, Saratoga, WY. This airspace is designed to contain IFR departures to 1,200 feet above the surface and IFR arrivals descending below 1,500 feet above the surface. To properly contain arriving and departing IFR aircraft, the radius south of the airport should be reduced from 6.9 miles to 5 miles. The radius north of the airport should increase from 6.9 miles to 7.3 miles. Also, the area extending north of the airport should be increased to properly contain IFR aircraft performing a procedure turn maneuver for the TBD–A Approach.

This action also proposes to remove the Class E airspace extending upward from 1,200 feet above the surface. This airspace area is wholly contained within the Denver en route airspace and duplication is not necessary.

Further, this action proposes to remove the Saratoga NDB and the Cherokee VOR/DME from the Class E’s text header and airspace description. The navigational aids (NAVAIDs) are not needed to define the airspace and removal of the NAVAIDs simplifies the airspace’s description.

Lastly, the action proposes administrative updates to the airspace’s text header. The city name should be removed from the second line of the text header, and the airport’s geographic coordinates on the third line of the text header should be updated to “lat. 41°26′37″ N, long. 106°49′39″ W” to match the FAA database.

Class E5 airspace designations are published in paragraph 6006 of FAA Order 7400.11E, dated July 21, 2020, and effective September 15, 2020, which is incorporated by reference in 14 CFR 71.1. The airspace designations listed in this document will be published subsequently in the Order.

FAA Order 7400.11,Airspace Designations and Reporting Points, is published yearly and effective on September 15.

Regulatory Notices and Analyses

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current, is non-controversial, and unlikely to result in adverse or negative comments. It, therefore: (1) Is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under DOT Regulatory Policies and Procedures (44 FR 11034; February 26, 1979); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that will only affect air traffic procedures and air navigation, it is certified that this rule, when promulgated, would not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Environmental Review

This proposal will be subject to an environmental analysis in accordance with FAA Order 1050.1F, “Environmental Impacts: Policies and Procedures” prior to any FAA final regulatory action.

List of Subjects in 14 CFR Part 71

Airspace, Incorporation by reference, Navigation (air).

The Proposed Amendment

Accordingly, pursuant to the authority delegated to me, the Federal Aviation Administration proposes to amend 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS A, B, C, D, AND E AIRSPACE AREAS; AIR TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

■ 1. The authority citation for 14 CFR part 71 continues to read as follows:


§ 71.1 [Amended]

■ 2. The incorporation by reference in 14 CFR 71.1 of FAA Order 7400.11E, Airspace Designations and Reporting Points, dated July 21, 2020, and effective September 15, 2020, is amended as follows:
DEPARTMENT OF HOMELAND SECURITY

Coast Guard

33 CFR Part 165

RIN 1625-AA00

Safety Zones; July 4th Holiday Fireworks in the Coast Guard Captain of the Port Maryland-National Capital Region Zone

AGENCY: Coast Guard, DHS.

ACTION: Notice of proposed rulemaking.

SUMMARY: The Coast Guard is proposing to establish three temporary safety zones for navigable waters within the Captain of the Port Maryland-National Capital Region Zone. This action is necessary to provide for the safety of life on these navigable waters of the Severn River in Anne Arundel County, MD, on July 3, 2021, (with alternate date of July 5, 2021), Kent Island Narrows (North Approach) in Queen Anne’s County, MD, on July 4, 2021, (with alternate date of July 5, 2021), and Susquehanna River in Harford County, MD, on July 4, 2021, (with alternate date of July 5, 2021), during fireworks displays to commemorate the July 4th holiday. This proposed rulemaking would prohibit persons and vessels from being in these safety zones unless authorized by the Captain of the Port Maryland-National Capital Region or a designated representative. We invite your comments on this proposed rulemaking.

DATES: Comments and related material must be received by the Coast Guard on or before May 25, 2021.

ADDRESSES: You may submit comments identified by docket number USCG–2021–0199 using the Federal eRulemaking Portal at https://www.regulations.gov. See the “Public Participation and Request for Comments” portion of the SUPPLEMENTARY INFORMATION section for further instructions on submitting comments.

FOR FURTHER INFORMATION CONTACT: If you have questions about this proposed rulemaking, call or email Mr. Ron Houck, Sector Maryland-National Capital Region Waterways Management Division, U.S. Coast Guard; telephone 410–576–2674, email Ronald.L.Houck@uscg.mil.

SUPPLEMENTARY INFORMATION:

I. Table of Abbreviations

CFR Code of Federal Regulations
COTP Captain of the Port
DHS Department of Homeland Security
FR Federal Register
NPRM Notice of proposed rulemaking
§ Section

II. Background, Purpose, and Legal Basis

The Fifth Coast Guard District has been notified of three fireworks displays planned throughout the Maryland-National Capital Region to commemorate the July 4th holiday. Hazards from these fireworks displays include accidental discharge of fireworks, dangerous projectiles, and falling hot embers or other debris. To respond to these hazards, the Coast Guard plans to establish temporary safety zones to protect the nearby public.

1. The Sherwood Forest Club, Inc., of Sherwood Forest, MD, plans to conduct a fireworks display from 9:20 p.m. to 9:50 p.m. on July 3, 2021. The fireworks are to be launched from the end of the Sherwood Forest Club main pier, located adjacent to the Severn River, approximately 200 yards east of Brewer Pond in Sherwood Forest, MD. In the event of inclement weather, the fireworks display will be scheduled for July 5, 2021. The COTP Maryland-National Capital Region has determined that potential hazards associated with the fireworks to be used in this display would be a safety concern for anyone within 150 yards of the fireworks discharge site.

2. Queen Anne’s County Government, of Centreville, MD, plans to conduct a fireworks display from 10 p.m. to 10:20 p.m. on July 4, 2021. The fireworks are to be launched from Kent Island along the Kent Island Narrows (North Approach) in Chester, MD. In the event of inclement weather, the fireworks display will be scheduled for July 5, 2021. The COTP Maryland-National Capital Region has determined that potential hazards associated with the fireworks to be used in this display would be a safety concern for anyone within 800 feet of the fireworks discharge site.

3. The Independence Day Commission of Havre de Grace, MD, plans to conduct a fireworks display from 9:30 p.m. to 10 p.m. on July 4, 2021. The fireworks are to be launched from a fireworks barge located in the Susquehanna River, approximately 300 yards southeast of Concord Point in Havre de Grace, MD. In the event of inclement weather, the fireworks display will be scheduled for July 5, 2021. The COTP Maryland-National Capital Region has determined that potential hazards associated with the fireworks to be used in this display would be a safety concern for anyone within 200 yards of the fireworks barge.

The Coast Guard is requesting that interested parties provide comments within a shortened comment period of 15 days instead of the typical 30 days for this notice of proposed rulemaking. The Coast Guard believes a shortened comment period is necessary and reasonable to ensure the Coast Guard has time to review and respond to any significant comments submitted by the public in response to this NPRM and has a final rule in effect in time for the first scheduled event.

The Coast Guard is proposing this rulemaking under authority in 46 U.S.C. 70034 (previously 33 U.S.C. 1231).

III. Discussion of Proposed Rule

The COTP is proposing to establish three temporary safety zones for certain navigable waters within the COTP Maryland-National Capital Region Zone, as described in 33 CFR 3.25–15, and would be enforced during the times described below for each zone.

The first safety zone would be enforced from 8:30 p.m. to 10:30 p.m. on July 3, 2021, or if necessary due to inclement weather, from 8:30 p.m. to 10:30 p.m. on July 5, 2021. The safety zone would cover all navigable waters of the Severn River, within 150 yards of a fireworks discharge site located at the end of Sherwood Forest Club main pier in approximate position latitude 38°01’54.0” N, longitude 76°32’41.8” W. Sherwood Forest, MD. The duration of the zone is intended to ensure the safety of vessels and these navigable
waters before, during, and after the scheduled 9:20 p.m. to 9:50 p.m. on July 3, 2021 fireworks display.

The second safety zone would be enforced from 9 p.m. to 11 p.m. on July 4, 2021, or if necessary due to inclement weather, from 9 p.m. to 11 p.m. on July 5, 2021. The safety zone would cover all navigable waters of the Kent Island Narrows (North Approach), within 800 feet of the fireworks launch site at Kent Island in approximate position latitude 38°58′44.8″ N, longitude 076°14′52.9″ W, in Queen Anne’s County, MD. The duration of the zone is intended to ensure the safety of vessels and these navigable waters before, during, and after the scheduled 10 p.m. to 10:20 p.m. on July 4, 2021 fireworks display.

The third safety zone would be enforced from 8:30 p.m. to 10:30 p.m. on July 4, 2021, or if necessary due to inclement weather, from 8:30 p.m. to 10:30 p.m. on July 5, 2021. The safety zone would cover all navigable waters of the Susquehanna River within 200 yards of a barge in approximate position latitude 39°32′19″ N, longitude 076°04′58.3″ W, located at Havre de Grace, MD. The duration of the zone is intended to ensure the safety of vessels and these navigable waters before, during, and after the scheduled 9:30 to 10 p.m. on July 4, 2021 fireworks display.

No vessel or person would be permitted to enter these safety zones without obtaining permission from the COTP or a designated representative. The regulatory text we are proposing appears at the end of this document.

IV. Regulatory Analyses

We developed this proposed rule after considering numerous statutes and Executive orders related to rulemaking. Below we summarize our analyses based on a number of these statutes and Executive orders, and we discuss First Amendment rights of protestors.

A. Regulatory Planning and Review

Executive Orders 12866 and 13563 direct agencies to assess the costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits. This NPRM has not been designated a “significant regulatory action,” under Executive Order 12866. Accordingly, the NPRM has not been reviewed by the Office of Management and Budget (OMB).

This regulatory action determination is based on the size, duration, and time-of-day of the safety zones, which would impact small designated areas of the Severn River, Kent Island Narrows (North Approach), and Susquehanna River for a total no more than six total enforcement-hours, during the evening when vessel traffic is normally low. Moreover, the Coast Guard will issue Local Notices to Mariners and a Broadcast Notice to Mariners via VHF–FM marine channel 16 about the zones.

B. Impact on Small Entities

The Regulatory Flexibility Act of 1980, 5 U.S.C. 601–612, as amended, requires Federal agencies to consider the potential impact of regulations on small entities during rulemaking. The term “small entities” comprises small businesses, not-for-profit organizations that are independently owned and operated and are not dominant in their fields, and governmental jurisdictions with populations of less than 50,000.

The Coast Guard certifies under 5 U.S.C. 605(b) that this proposed rule would not have a significant economic impact on a substantial number of small entities. While some owners or operators of vessels intending to transit the safety zone may be small entities, for the reasons stated in section IV.A above, this proposed rule would not have a significant economic impact on any vessel owner or operator.

If you think that your business, organization, or governmental jurisdiction qualifies as a small entity and that this rule would have a significant economic impact on it, please submit a comment (see ADDRESSES) explaining why you think it qualifies and how and to what degree this rule would economically affect it. Under section 213(a) of the Small Business Regulatory Enforcement Fairness Act of 1996 (Pub. L. 104–121), we want to assist small entities in understanding this proposed rule. If the rule would affect your small business, organization, or governmental jurisdiction and you have questions concerning its provisions or options for compliance, please call or email the person listed in the FOR FURTHER INFORMATION CONTACT section.

C. Collection of Information

This proposed rule would not call for a new collection of information under the Paperwork Reduction Act of 1995 (44 U.S.C. 3501–3520).

D. Federalism and Indian Tribal Governments

A rule has implications for federalism under Executive Order 13132 (Federalism), if it has a substantial direct effect on the States, on the relationship between the National Government and the States, or on the distribution of power and responsibilities among the various levels of government. We have analyzed this proposed rule under that Order and have determined that it is consistent with the fundamental federalism principles and preemption requirements described in Executive Order 13132.

Also, this proposed rule does not have tribal implications under Executive Order 13175 (Consultation and Coordination with Indian Tribal Governments) because it would not have a substantial direct effect on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes.

If you believe this proposed rule has implications for federalism or Indian tribes, please call or email the person listed in the FOR FURTHER INFORMATION CONTACT section.

E. Unfunded Mandates Reform Act

The Unfunded Mandates Reform Act of 1995 (2 U.S.C. 1531–1538) requires Federal agencies to assess the effects of their discretionary regulatory actions. In particular, the Act addresses actions that may result in the expenditure by a State, local, or tribal government, in the aggregate, or by the private sector of $100,000,000 (adjusted for inflation) or more in any one year. Though this proposed rule would not result in such an expenditure, we do discuss the effects of this rule elsewhere in this preamble.

F. Environment

We have analyzed this proposed rule under Department of Homeland Security Directive 023–01, Rev. 1, associated implementing instructions, and Environmental Planning COMDTINST 5090.1 (series), which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (42 U.S.C. 4321–4370f), and have made a preliminary determination that this action is one of a category of actions that do not individually or cumulatively have a significant effect on the human environment. This proposed rule involves five safety zones lasting six total enforcement hours that would prohibit entry within portions of the Severn River, Kent Island Narrows (North Approach), and Susquehanna River. Normally such actions are categorically excluded from further review under paragraph L60(a) of Appendix A, Table 1 of DHS Instruction Manual 023–01–001–01, Rev. 1. A
List of Subjects in 33 CFR Part 165
Harbors, Marine safety, Navigation (water), Reporting and recordkeeping requirements, Security measures, Waterways.

For the reasons discussed in the preamble, the Coast Guard is proposing to amend 33 CFR part 165 as follows:

PART 165—REGULATED NAVIGATION AREAS AND LIMITED ACCESS AREAS

1. The authority citation for part 165 continues to read as follows:

Authority: 46 U.S.C. 70034, 70051; 33 CFR 1.05–1, 6.04–1, 6.04–6, and 160.5; Department of Homeland Security Delegation No. 0170.1.

2. Add §165.T05–0199 to read as follows:

§165.T05–0199 Safety Zones; July 4th Holiday Fireworks in the Coast Guard Captain of the Port Maryland-National Capital Region Zone.

(a) Locations. The following areas are a safety zone: These coordinates are based on datum NAD 83.

(1) Safety Zone 1. All waters of the Severn River, within 150 yards of a fireworks discharge site located at the end of Sherwood Forest Club main pier in approximate position latitude 39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

(2) Safety Zone 2. All navigable waters of the Kent Island Narrows (North Approach), within 800 feet of the fireworks launch site at Kent Island in approximate position latitude 38°58’44.8″ N, longitude 076°14’52.9″ W, in Queen Anne’s County, MD.

(3) Safety Zone 3. All navigable waters of the Susquehanna River within 200 yards of a barge in approximate position latitude 39°32’19″ N, longitude 076°04’58.3″ W, located at Havre de Grace, MD.

(b) Definitions. As used in this section—

Captain of the Port (COTP) means the Commander, U.S. Coast Guard Sector Maryland-National Capital Region.

Designated representative means a Coast Guard Patrol Commander, including a Coast Guard Coxswain, petty officer, or other officer operating a Coast Guard vessel and a Federal, State, and local officer designated by or assisting the Captain of the Port Maryland-National Capital Region (COTP) in the enforcement of the safety zone.

(c) Regulations. (1) Under the general safety zone regulations in subpart C of this part, you may not enter the safety zone described in paragraph (a) of this section unless authorized by the COTP or the COTP’s designated representative.

(2) To seek permission to enter, contact the COTP or the COTP’s representative by telephone at 410–576–2693 or on Marine Band Radio VHF–FM channel 16 (156.8 MHz). Those in the safety zone must comply with all lawful orders or directions given to them by the COTP or the COTP’s designated representative.

(d) Enforcement officials. The U.S. Coast Guard may be assisted in the patrol and enforcement of the safety zone by Federal, State, and local agencies.

(e) Enforcement periods. (1) Paragraph (a)(1) of this section will be enforced from 8:30 p.m. to 10:30 p.m. on July 3, 2021. If necessary due to inclement weather on July 3, 2021, it will be enforced from 8:30 p.m. to 10:30 p.m. on July 5, 2021.

(2) Paragraph (a)(2) of this section will be enforced from 9 p.m. to 11 p.m. on July 4, 2021. If necessary due to inclement weather on July 4, 2021, it will be enforced from 9 p.m. to 11 p.m. on July 5, 2021.

(3) Paragraph (a)(3) of this section will be enforced from 8:30 p.m. to 10:30 p.m. on July 4, 2021. If necessary due to inclement weather on July 4, 2021, it will be enforced from 8:30 p.m. to 10:30 p.m. on July 5, 2021.


David E. O’Connell,
Captain, U.S. Coast Guard, Captain of the Port Maryland-National Capital Region.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

List of Subjects in 33 CFR Part 165
Harbors, Marine safety, Navigation (water), Reporting and recordkeeping requirements, Security measures, Waterways.

For the reasons discussed in the preamble, the Coast Guard is proposing to amend 33 CFR part 165 as follows:

PART 165—REGULATED NAVIGATION AREAS AND LIMITED ACCESS AREAS

1. The authority citation for part 165 continues to read as follows:

Authority: 46 U.S.C. 70034, 70051; 33 CFR 1.05–1, 6.04–1, 6.04–6, and 160.5; Department of Homeland Security Delegation No. 0170.1.

2. Add §165.T05–0199 to read as follows:

§165.T05–0199 Safety Zones; July 4th Holiday Fireworks in the Coast Guard Captain of the Port Maryland-National Capital Region Zone.

(a) Locations. The following areas are a safety zone: These coordinates are based on datum NAD 83.

(1) Safety Zone 1. All waters of the Severn River, within 150 yards of a fireworks discharge site located at the end of Sherwood Forest Club main pier in approximate position latitude 39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

(2) Safety Zone 2. All navigable waters of the Kent Island Narrows (North Approach), within 800 feet of the fireworks launch site at Kent Island in approximate position latitude 38°58’44.8″ N, longitude 076°14’52.9″ W, in Queen Anne’s County, MD.

(3) Safety Zone 3. All navigable waters of the Susquehanna River within 200 yards of a barge in approximate position latitude 39°32’19″ N, longitude 076°04’58.3″ W, located at Havre de Grace, MD.

(b) Definitions. As used in this section—

Captain of the Port (COTP) means the Commander, U.S. Coast Guard Sector Maryland-National Capital Region.

Designated representative means a Coast Guard Patrol Commander, including a Coast Guard Coxswain, petty officer, or other officer operating a Coast Guard vessel and a Federal, State, and local officer designated by or assisting the Captain of the Port Maryland-National Capital Region (COTP) in the enforcement of the safety zone.

(c) Regulations. (1) Under the general safety zone regulations in subpart C of this part, you may not enter the safety zone described in paragraph (a) of this section unless authorized by the COTP or the COTP’s designated representative.

(2) To seek permission to enter, contact the COTP or the COTP’s representative by telephone at 410–576–2693 or on Marine Band Radio VHF–FM channel 16 (156.8 MHz). Those in the safety zone must comply with all lawful orders or directions given to them by the COTP or the COTP’s designated representative.

(d) Enforcement officials. The U.S. Coast Guard may be assisted in the patrol and enforcement of the safety zone by Federal, State, and local agencies.

(e) Enforcement periods. (1) Paragraph (a)(1) of this section will be enforced from 8:30 p.m. to 10:30 p.m. on July 3, 2021. If necessary due to inclement weather on July 3, 2021, it will be enforced from 8:30 p.m. to 10:30 p.m. on July 5, 2021.

(2) Paragraph (a)(2) of this section will be enforced from 9 p.m. to 11 p.m. on July 4, 2021. If necessary due to inclement weather on July 4, 2021, it will be enforced from 9 p.m. to 11 p.m. on July 5, 2021.

(3) Paragraph (a)(3) of this section will be enforced from 8:30 p.m. to 10:30 p.m. on July 4, 2021. If necessary due to inclement weather on July 4, 2021, it will be enforced from 8:30 p.m. to 10:30 p.m. on July 5, 2021.


David E. O’Connell,
Captain, U.S. Coast Guard, Captain of the Port Maryland-National Capital Region.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.

58.3 ° 04 ″ position latitude 39 32 19 ″ 200 yards of a barge in approximate position latitude
39°01’54.0″ N, longitude 076°32’41.8″ W, Sherwood Forest, MD.
2008 8-hour ozone NAAQS, including the requirements for an emissions inventory, emissions statements, attainment demonstration, reasonable further progress, reasonably available control measures, contingency measures, and motor vehicle emissions budgets. The EPA is proposing to approve the SIP revision as meeting all the applicable ozone nonattainment area requirements, except for contingency measures, for which we are proposing conditional approval.

DATES: Written comments must arrive on or before June 9, 2021.

ADDRESSES: Submit your comments, identified by Docket ID No. EPA–R09-OAR–2020–0254 at https://www.regulations.gov. For comments submitted at Regulations.gov, follow the online instructions for submitting comments. Once submitted, comments cannot be edited or removed from Regulations.gov. The EPA may publish any comment received to its public docket. Do not submit electronically any information you consider to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Multimedia submissions (audio, video, etc.) must be accompanied by a written comment. The written comment is considered the official comment and should include discussion of all points you wish to make. The EPA will generally not consider comments or comment contents located outside of the primary submission (i.e., on the web, cloud, or other file sharing system). For additional submission methods, please contact the person identified in the FOR FURTHER INFORMATION CONTACT section. For the full EPA public comment policy, information about CBI or multimedia submissions, and general guidance on making effective comments, please visit http://www.epa.gov/dockets/commenting-epa-dockets. If you need assistance in a language other than English or if you are a person with disabilities who needs a reasonable accommodation at no cost to you, please contact the person identified in the FOR FURTHER INFORMATION CONTACT section.

FOR FURTHER INFORMATION CONTACT: Tom Kelly, EPA Region IX, (415) 972–3856, kelly.thomasp@epa.gov.

SUPPLEMENTARY INFORMATION: Throughout this document, “we,” “us,” and “our” refer to the EPA.

Table of Contents

I. Regulatory Context
   A. Ozone Standards, Area Designations, and SIPs
   B. The West Mojave Desert Ozone Nonattainment Area
   C. CAA and Regulatory Requirements for 2008 Ozone Nonattainment Area SIPs
   II. Submissions From the State of California
      To Address 2008 Ozone Standards
      Requirements in the West Mojave Desert
      A. Summary of Submissions
      B. Clean Air Act Procedural Requirements
         for Adoption and Submission of SIP Revisions
      III. Evaluation of the 2016 WMD Attainment Plan and the 2018 SIP Update
         A. Emissions Inventories
         B. Emissions Statements
         C. Reasonably Available Control Measures
            Demonstration
         D. Attainment Demonstration
         E. Rate of Progress Plan and Reasonable Further Progress Demonstration
         F. Transportation Control Strategies and Measures To Offset Emissions Increases
            From Vehicle Miles Traveled
         G. Contingency Measures
         H. Motor Vehicle Emissions Budgets for Transportation Conformity
         I. Other Clean Air Act Requirements
            Applicable to Severe Ozone Nonattainment Areas
      IV. Proposed Action
      V. Statutory and Executive Order Reviews

II. Submissions From the State of California

A. Ozone Standards, Area Designations, and SIPs

Ground-level ozone pollution is formed from the reaction of volatile organic compounds (VOC) and oxides of nitrogen (NOx) in the presence of sunlight. These two pollutants, referred to as ozone precursors, are emitted by many types of sources, including on-and off-road motor vehicles and engines, power plants and industrial facilities, and smaller area sources such as lawn and garden equipment and paints. Scientific evidence indicates that adverse public health effects occur following exposure to ozone, particularly in children and adults with lung disease. Breathing air containing ozone can reduce lung function and inflame airways, which can increase respiratory symptoms and aggravate asthma or other lung diseases.

Under section 109 of the Clean Air Act (CAA or “Act”), the EPA promulgates NAAQS for pervasive air pollutants, such as ozone. The EPA has previously promulgated NAAQS for ozone in 1979 and 1997. In 2008, the EPA revised and further strengthened the ozone NAAQS by setting the acceptable level of ozone in the ambient air at 0.075 parts per million (ppm) averaged over an 8-hour period. Although the EPA further tightened the 8-hour ozone NAAQS to 0.070 ppm in 2015, this action relates to the requirements for the 2008 ozone NAAQS.

Following promulgation of a new or revised NAAQS, the EPA is required under CAA section 107(d) to designate areas throughout the country as attaining or not attaining the NAAQS. The “Los Angeles-San Bernardino Counties (West Mojave Desert), CA” area was designated as nonattainment for the 2008 ozone standards on May 21, 2012 and classified as “Severe-15.”

Under the CAA, the EPA designates areas as nonattainment for a NAAQS, states with nonattainment areas are required to submit SIP revisions that provide for, among other things, attainment of the NAAQS within certain prescribed periods that vary depending on the severity of nonattainment. Areas classified as Severe-15 must attain the NAAQS within 15 years of the effective date of the nonattainment designation.

In California, the California Air Resources Board (CARB) is the agency responsible for the adoption and submission to the EPA of California SIPs and SIP revisions, and it has broad authority to establish emissions standards and other requirements for mobile sources. Local and regional air pollution control districts in California are responsible for the regulation of stationary sources and are generally responsible for the development of regional air quality plans. In the West Mojave Desert, two agencies develop and adopt air quality management plans to address CAA planning requirements applicable to that region, the Antelope Valley Air Quality Management District (AVAQMD) and the Mojave Desert Air Quality Management District (MDAQMD) (collectively, “Districts”). Such plans are then submitted to CARB for adoption and submitted to the EPA as revisions to the California SIP.
B. The West Mojave Desert Ozone Nonattainment Area

The West Mojave Desert is located in northeast Los Angeles County and southwest San Bernardino County. For a precise description of the geographic boundaries of the area, see 40 CFR 81.305. The Los Angeles County portion of the WMD area is under the jurisdiction of the AVAQMD, and the San Bernardino County portion of the area is under the jurisdiction of the MDAQMD.

The population of the West Mojave Desert is approximately 868,380. Ambient 8-hour ozone concentrations in the WMD are above the level of the 2008 8-hour ozone NAAQS. The area's maximum design value for the 2017–2019 period, based on certified data at the Phalen monitor (Air Quality System ID: 06-071-0012), is 0.096 ppm.

The Desert receives significant transport of ozone and ozone precursors from the South Coast Air Basin, and to a lesser extent, the San Joaquin Valley. To attain the 2008 ozone NAAQS, the WMD will depend on continued emissions reductions in those areas.

G. CAA and Regulatory Requirements for 2008 8-Hour Ozone Nonattainment Area SIPs

States must implement the 2008 ozone standards under title I, part D of the CAA, which includes sections 171–179B of subpart 1, “Nonattainment Areas in General,” and sections 181–185 of subpart 2, “Additional Provisions for Ozone Nonattainment Areas.” To assist states in developing effective plans to address ozone nonattainment problems, in 2015 the EPA issued a SIP Requirements Rule (SRR) for the 2008 ozone standards (“2008 Ozone SRR”) that addresses requirements for nonattainment areas, such as attainment dates, emissions inventories, attainment and reasonable further progress (RFP) demonstrations, and the transition from the 1997 8-hour ozone standards to the 2008 8-hour ozone standards and associated backsliding requirements.

The 2008 Ozone SRR is codified at 40 CFR part 51, subpart AA. We discuss each of the CAA statutory and regulatory requirements for 2008 8-hour ozone plans in more detail in Section III of this document.

The EPA’s 2008 Ozone SRR was challenged, and on February 16, 2018, the U.S. Court of Appeals for the D.C. Circuit (“D.C. Circuit”) published its decision in South Coast Air Quality Management District v. EPA (“South Coast II”) vacating portions of the 2008 Ozone SRR. The only aspect of the South Coast II decision that affects this proposed action is the vacatur of the alternative baseline year for RFP plans.

More specifically, the 2008 Ozone SRR required states to develop the baseline emissions inventory for RFP plans using the emissions inventory for the most recent calendar year for which state submitted a triennial report to the EPA under subpart A of 40 CFR part 51, “Air Emissions Reporting Requirements,” which was 2011. The 2008 Ozone SRR, however, allowed states to use an alternative year, between 2008 and 2012, for the baseline emissions inventory, provided the state demonstrated why the alternative baseline year was appropriate. In the South Coast II decision, the D.C. Circuit vacated the provisions of the 2008 Ozone SRR that allowed states to use an alternative baseline year for demonstrating RFP.

II. Submissions From the State of California To Address 2008 Ozone Standards Requirements in the West Mojave Desert

A. Summary of Submissions

1. 2016 WMD Attainment Plan

On June 2, 2017, CARB submitted a SIP revision to address the WMD’s planning obligations as a Severe-15 nonattainment area for the 2008 ozone NAAQS. The June 2, 2017 submittal includes attainment plans prepared by the AVAQMD (“AVAQMD Attainment Plan”) and the MDAQMD (“MDAQMD Attainment Plan”), an accompanying staff report prepared by CARB (“CARB Staff Report”), and other supporting documents. We refer to the AVAQMD Attainment Plan and the MDAQMD Attainment Plan collectively as the Districts’ “Attainment Plans,” and we refer to all the documents submitted to the EPA on June 2, 2017 as the “2016 WMD Attainment Plan.”

The 2016 WMD Attainment Plan addresses the requirements for base year and projected future year emissions inventories, air quality modeling, demonstrating attainment of the 2008 ozone NAAQS by the applicable attainment year, provisions demonstrating implementation of reasonably available control measures (RACM), provisions for transportation control strategies and measures, a demonstration of RFP, and contingency measures for failure to make RFP or to attain, among other requirements.

2. CARB’s 2018 Updates to the California State Implementation Plan

On December 11, 2018, CARB submitted the “2018 Updates to the California State Implementation Plan” (“2018 SIP Update”) to the EPA as a revision to the California SIP. CARB adopted the 2018 SIP Update on October 25, 2018. CARB developed the 2018 SIP Update in response to the court’s decision in South Coast II vacating the 2008 Ozone SRR with respect to the use of an alternate baseline year for demonstrating RFP, and to address contingency measure requirements in the wake of the court decision in Bahr v. EPA.

The 2018 SIP Update includes updates for 8 different California ozone nonattainment areas. We have previously approved portions of the 2018 SIP Update related to other


15 MDAQMD, “MDAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area),” adopted on February 27, 2017.


17 Letter dated December 5, 2018, from Richard Corey, CARB, to Mike Stoker, EPA Region IX.

18 Bahr v. EPA, 836 F.3d 1218 (9th Cir. 2016). In this case, the court rejected the EPA’s longstanding interpretation of CAA section 172(d)(10) allowing for early implementation of contingency measures. The court concluded that a contingency measure must take effect at the time the area fails to make RFP or attain by the applicable attainment date, not before. See also Sierra Club v. EPA, 985 F.3d 1055 (D.C. Cir. 2021), reaching a similar decision. These cases are addressed below in Section III.G of this document.
nonattainment areas. For the West Mojave Desert, the 2018 SIP Update includes an RFP demonstration using the required 2011 baseline year and revised motor vehicle emission budgets for the 2008 ozone NAAQS.

B. Clean Air Act Procedural Requirements for Adoption and Submission of SIP Revisions

1. Requirements

CAA sections 110(a)(1) and (2) and 110(l) require a state to provide reasonable public notice and opportunity for public hearing prior to the adoption and submission of a SIP or SIP revision. To meet this requirement, every SIP submittal should include evidence that adequate public notice was given and an opportunity for a public hearing was provided consistent with the EPA’s implementing regulations in 40 CFR 51.102.

2. Summary of the State’s Documentation

a. 2016 WMD Attainment Plan

On February 17, 2017, the AVAQMD published notice in a local newspaper of a public hearing to be held on March 21, 2017, for adoption of the AVAQMD Attainment Plan. The District held the public hearing on March 21, 2017, and signed a Board resolution adopting the plan that same day. The District sent the plan to CARB on April 18, 2017. On January 27, 2017, the MDAQMD published notice in a local newspaper of a public hearing to be held on February 27, 2017, for adoption of the MDAQMD Attainment Plan. The District held the public hearing on February 27, 2017, and signed a Board resolution adopting the plan that same day. The District sent the plan to CARB on April 3, 2017.

On April 20, 2017, CARB provided notice of a public comment period and public hearing to be held on May 25, 2017, for the 2016 WMD Attainment Plan. CARB adopted the 2016 WMD Attainment Plan by resolution at the May 25, 2017 hearing, and submitted it to the EPA on June 2, 2017. The EPA notified CARB the submittal was complete on November 22, 2017.

b. 2018 SIP Update

On September 21, 2018, CARB provided notice of a public comment period and public hearing to be held on October 25, 2018, for the 2018 SIP Update. CARB adopted the 2018 SIP Update by resolution at the October 25, 2018 hearing, and submitted it to the EPA in a letter dated December 5, 2018, which was electronically transmitted to the EPA’s State Planning Electronic Collaboration System on December 11, 2018.

The EPA’s Conclusions on the Submission Requirements for the WMD 2016 Attainment Plan

CARB has satisfied the applicable statutory and regulatory requirements for reasonable public notice and hearing prior to the adoption and submittal of the elements of the 2016 WMD Attainment Plan. Based on information provided in each SIP revision and summarized above, the EPA has determined that all hearings were properly noticed. Therefore, we find that the submittals of the 2016 WMD Attainment Plan meet the procedural requirements for public notice and hearing in CAA sections 110(a) and 110(l) and 40 CFR 51.102.

III. Evaluation of the 2016 WMD Attainment Plan and 2018 SIP Update

A. Emission Inventories

1. Statutory and Regulatory Requirements

Sections 172(c)(3) and 182(a)(1) of the CAA require states to submit for each ozone nonattainment area a “base year inventory” that is a comprehensive, accurate, current inventory of actual emissions from all sources of the relevant pollutant or pollutants in the area. In addition, the 2008 Ozone SRR requires that the inventory year be selected consistent with the baseline year for the RFP demonstration, which is usually the most recent calendar year for which a complete triennial inventory is required to be submitted to the EPA under the Air Emissions Reporting Requirements. The EPA has issued guidance on the development of base year and future year emissions inventories for 8-hour ozone and other pollutants.

Emissions inventories for ozone must include emissions of VOC and NOX and represent emissions for a typical ozone season weekday. States should include documentation explaining how the emissions data were calculated. In estimating mobile source emissions, states should use the latest emissions models and planning assumptions available at the time the SIP is developed.

Future year baseline emissions inventories must reflect the most recent population, employment, travel, and congestion estimates for the area. In this context, “baseline” emissions inventories refer to emissions estimates for a given year and area that reflect rules and regulations and other measures that are already adopted. Future year baseline emissions inventories are necessary to show the projected effectiveness of SIP control measures. Both the base year and future year inventories are necessary for photochemical modeling to demonstrate attainment.

2. Summary of State’s Submission

The 2016 WMD Attainment Plan includes base year (2012) and future year baseline inventories for NOX and VOC for the West Mojave Desert.
Documentation for the inventories is found in Appendix A–2 of the CARB Staff Report. The emissions inventories represent average summer day emissions, consistent with the observation that ozone levels in West Mojave Desert are typically higher from May through October. For stationary and area sources, the 2012 base year and future year inventories considered several of the Districts’ rules, specifically including MDAQMD Rule 1461, “Portland Cement Kilns” (covering mineral processing), and rules from both Districts based on CARB’s rules for consumer products, aerosol coatings, and architectural coatings. The inventory also specifically notes the incorporation of CARB’s performance standards for gasoline dispensing hose permeation, and revised vehicle-refueling emission factors. These District and CARB rules are noted in Table 5. “Stationary Source Control Rules and Regulations Included in the Inventory.” of Appendix A–1 of the CARB Staff Report. The mobile source portions of both base year and projected future year inventories were developed using California’s EPA-approved mobile source emissions model, EMFAC2014, for estimating on-road motor vehicle emissions.

The 2016 WMD Attainment Plan includes emissions inventories for stationary sources, area sources, and on-road and off-road mobile sources. Stationary sources refer to larger “point” sources that have a fixed geographic location. The 2018 SIP Update explains that 2012 “stationary source emissions reflect actual emissions reported from industrial point sources,” which include stationary aggregate sources, such as gasoline dispensing facilities. AVAQMD and MDAQMD separated the stationary sources within the WMD from those within their respective counties but outside the WMD. Area sources include smaller emissions sources distributed across the nonattainment area, such as consumer products, architectural coatings, pesticides and herbicides, farming operations, and cooking. CARB and the District estimates emissions for area sources using surveys and information from other state and federal agencies. These estimates are updated with relevant factors such as population changes, demographic factors, and agency specific growth factors (e.g., for farming operations and use of herbicides and pesticides).

On-road emissions inventories in the CARB Staff Report are calculated using CARB’s EMFAC2014 model and the travel activity data provided by the area’s metropolitan planning organization, the Southern California Association of Governments (SCAG), in the “2016–2040 Regional Transportation Plan/Sustainable Communities Strategy.” CARB consulted with MDAQMD staff to estimate emissions from off-road equipment and area sources occurring in the nonattainment area, most often using human population as default surrogate for the quantity of emissions occurring in the WMD. Future emissions forecasts are primarily based on population and economic growth projections provided by SCAG; growth estimates from government agencies such as the U.S. Bureau of Labor Statistics, the U.S. Department of Agriculture, and CARB; forecasts from the Districts; and research studies. The growth factors for each emissions category are discussed in Appendix A–1 of the CARB Staff Report.

Table 1 below provides a summary of the CARB Staff Report’s 2012 base year and future attainment year VOC and NOX emissions estimates within the West Mojave Desert (average summer day). These inventories provide the basis for the control measure analysis and the attainment demonstration in the 2016 WMD Attainment Plan. Based on the inventory for 2012, stationary and area sources of VOC emissions are roughly equivalent to the combined on-road and off-road mobile source emissions. For NOX emissions in 2012, on-road mobile sources contribute the highest fraction of emissions (37.11 tons per day (tpd) or 37.5 percent) followed by off-road (32.53 tpd or 32.9 percent), stationary (28.27 tpd or 28.6 percent), and area sources (1.05 tpd or 1.1 percent).

Appendix A–2 of the CARB Staff Report. In contrast, the emissions inventory and projections in Appendix A and B of the Districts’ Attainment Plans contain average daily emissions, not average summer day emissions.


Emissions from off-road mobile sources contribute the highest fraction of emissions (37.11 tons per day (tpd) or 37.5 percent) followed by off-road (32.53 tpd or 32.9 percent), stationary (28.27 tpd or 28.6 percent), and area sources (1.05 tpd or 1.1 percent).

51 In December 2015, the EPA approved EMFAC2014 for SIP development and transportation conformity purposes in California. 80 FR 77337 (December 14, 2015). EMFAC2014 was the most recently approved version of the EMFAC model that was available at the time of preparation of the 2016 Attainment Plan. The EPA approved an updated version of the EMFAC model, EMFAC2017, for future SIP development and transportation purposes in California. 84 FR 41717 (August 15, 2019).
TABLE 1—WEST MOJAVE DESERT NONATTAINMENT AREA BASE YEAR AND ATTAINMENT YEAR EMISSIONS INVENTORY

<table>
<thead>
<tr>
<th>Category</th>
<th>NOX (2012)</th>
<th>NOX (2026)</th>
<th>VOC (2012)</th>
<th>VOC (2026)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stationary Sources</td>
<td>28.27</td>
<td>42.08</td>
<td>13.16</td>
<td>17.35</td>
</tr>
<tr>
<td>Area Sources</td>
<td>1.05</td>
<td>0.92</td>
<td>11.32</td>
<td>12.15</td>
</tr>
<tr>
<td>On-road Mobile</td>
<td>37.11</td>
<td>9.84</td>
<td>15.21</td>
<td>5.98</td>
</tr>
<tr>
<td>Off-road Mobile</td>
<td>32.53</td>
<td>25.53</td>
<td>7.09</td>
<td>4.99</td>
</tr>
<tr>
<td>Total</td>
<td>98.95</td>
<td>68.56</td>
<td>46.78</td>
<td>40.47</td>
</tr>
</tbody>
</table>

Source: Appendix A–2, CARB Staff Report. Due to rounding, the totals may not agree to the hundredth of a tpd.

3. The EPA’s Review of the State’s Submission

We have reviewed the 2012 base year emissions inventory in the 2016 WMD Attainment Plan and the inventory methodologies used by CARB and the District for consistency with CAA requirements and EPA guidance. First, as required by EPA regulations, we find that the 2012 inventory includes estimates for VOC and NOX for a typical ozone season weekday, and that CARB has provided adequate documentation explaining how the emissions are calculated. Second, we find that the 2012 base year emissions inventory in the 2016 WMD Attainment Plan reflects appropriate emissions models and methodologies, and, therefore, represents a comprehensive, accurate, and current inventory of actual emissions during that year in the WMD.

Third, we find that selection of year 2012 for the base year emissions inventory is appropriate because it is consistent with the 2011 RFP baseline year (from the 2018 SIP Update) because both inventories are derived from a common set of models and methods. Therefore, the EPA is proposing to approve the 2012 emissions inventory in the 2016 WMD Attainment Plan as meeting the requirements for a base year inventory set forth in CAA section 182(a)(1) and 40 CFR 51.1115.

With respect to future year baseline projections, we have reviewed the growth and control factors and find them acceptable, and conclude that the future baseline projections in the 2016 WMD Attainment Plan reflect appropriate calculation methods and the latest planning assumptions.

Furthermore, we note that the future year baseline projections account for emissions reductions from control measures in adopted state and local rules and regulations. As a general matter, the EPA will approve a SIP revision that takes emissions reduction credit for such control measures only where the EPA has approved the control measures as part of the SIP. Tables 1 and 2 in the technical support document (TSD) supporting this action document the approval of all rules within the West Mojave Desert. Table 5 of the CARB Staff Report documents the specific rules considered in the development of the emissions inventory.

With respect to mobile sources, the EPA has taken action in recent years to approve CARB mobile source regulations into the California SIP. Therefore find that the future year baseline projections in the 2016 WMD Attainment Plan are properly supported by SIP-approved stationary and mobile source control measures.

B. Emissions Statements

1. Statutory and Regulatory Requirements

Section 182(a)(3)(B)(i) of the Act requires each state to submit a SIP revision requiring owners or operators of stationary sources of VOC or NOX to provide the state with statements of actual emissions from such sources. Statements must be submitted at least every year and must contain a certification that the information contained in the statement is accurate to the best knowledge of the individual certifying the statement. Section 182(a)(3)(B)(ii) of the Act allows states to waive the emission statement requirement for any class or category of stationary sources that emit less than 25 tpy of VOC or NOX, if the state provides an inventory of emissions from such class or category of sources as part of the base year or periodic inventories required under CAA sections 182(a)(1) and 182(a)(3)(A), based on the use of emission factors established by the EPA or other methods acceptable to the EPA.

The preamble of the 2008 Ozone SRR states that if an area has a previously approved emissions statement rule for the 1997 ozone NAAQS or the 1-hour ozone NAAQS that covers all portions of the nonattainment area for the 2008 ozone NAAQS, such rule should be sufficient for purposes of the emissions statement requirement for the 2008 ozone NAAQS. The state should review the existing rule to ensure it is adequate and, if so, may rely on it to meet the emissions statement requirement for the 2008 ozone NAAQS. Where an existing emissions statement requirement is still adequate to meet the requirements of this rule, states can provide the rationale for that determination to the EPA in a written statement in the SIP to meet this requirement. States should identify the various requirements and how each is met by the existing emissions statement program. Where an emissions statement requirement is modified for any reason, the state must provide the revisions to the emissions statement as part of its SIP.

2. Summary of the State’s Submission

The 2016 WMD Attainment Plan addresses compliance with the emissions statement requirement in CAA section 182(a)(3)(B) for the 2008 ozone NAAQS by reference to AVAQMD Rule 107 and MDAQMD Rule 107. These rules require, among other things, emissions reporting within the West Mojave Desert from all stationary sources of NOX and VOC with emissions over 25 tpy. The EPA approved AVAQMD Rule 107 on April 11, 2013 (78 FR 21545) and MDAQMD Rule 107 on May 26, 2004 (69 FR 29880) as revisions to each District’s portion of the California SIP. AVAQMD and MDAQMD letters to CARB state that these rules continue to meet the emission statement requirements of CAA section 182(a)(3)(B) and that the Districts rely on these rules to meet the ozone NAAQS.

55 80 FR 12264, at 12291 (March 6, 2015).
56 Addendum A to Appendix D and Addendum A to Appendix E of the CARB Staff Report.
emissions statement requirements for the 2008 ozone standards.\footnote{58}{Appendix D1 and D2 and Appendix E1 and E1 of the CARB Staff Report.} 3. The EPA’s Review of the State’s Submission For this action, we have reviewed AVAQMD Rule 107 and MDAQMD Rule 107 for compliance with the specific requirements for emissions statement rules under CAA section 182(a)(3)(B). We agree with the Districts’ findings: That these rules apply within the entire ozone nonattainment area and that the nonattainment area is the same for both the 1997 Ozone NAAQS and the 2008 ozone NAAQS; that the rules require all stationary sources of VOC and NO\textsubscript{X} except those emitting less than 25 tpy for which the Districts have waived the requirement (consistent with CAA section 182(a)(3)(B)(iii)); and that the rules require reporting, on an annual basis, of total emissions of VOC and NO\textsubscript{X}. We also find that AVAQMD Rule 107 and MDAQMD Rule 107 require certification that the information provided to the Districts is accurate to the best knowledge of the individual certifying the emissions data, as required under CAA section 182(a)(3)(B).

Therefore, we propose to approve the emissions statement element of the 2016 WMD Attainment Plan as meeting the requirements of CAA section 182(a)(3)(B) and the 40 CFR 51.1102.

C. Reasonably Available Control Measures Demonstration

1. Statutory and Regulatory Requirements

CAA section 172(c)(1) requires that each attainment plan provide for the implementation of all RACM as expeditiously as practicable (including such reductions in emissions from existing sources in the area as may be obtained through implementation of reasonably available control technology (RACT)), and also provide for attainment of the NAAQS. The 2008 Ozone SRR requires that, for each nonattainment area required to submit an attainment demonstration, the state concurrently submit a SIP revision demonstrating that it has adopted all RACM necessary to demonstrate attainment as expeditiously as practicable and to meet any RFP requirements.\footnote{59}{40 CFR 51.1112(c).}

The EPA has previously provided guidance interpreting the RACM requirement in the General Preamble for the Implementation of the Clean Air Act Amendments of 1990 ("General Preamble") and in a memorandum entitled "Guidance on the Reasonably Available Control Measures (RACM) Requirement and Attainment Demonstration Submissions for Ozone Nonattainment Areas."\footnote{60}{General Preamble, 57 FR 13496 at 13560 (April 16, 1992); memorandum dated November 30, 1999, from John Seitz, Director, OAQPS, to EPA Regional Air Directors, Regions I–X, Subject: "Guidance on the Reasonably Available Control Measures (RACT) Requirement and Attainment Demonstration Submissions for Ozone Nonattainment Areas."} In summary, to address the requirement to adopt all RACM, states should consider all potentially reasonable control measures for source categories in the nonattainment area to determine whether they are reasonably available for implementation in that area and whether they would, if implemented individually or collectively, advance the area’s attainment date by one year or more.\footnote{61}{Id. See also 44 FR 20742 (April 4, 1979), and memorandum dated December 14, 2000, from John S. Seitz, Director, OAQPS, to Regional Air Directors, titled "Additional Submission on RACM From States with Severe One-Hour Ozone Nonattainment SIPs."} Any measures that are necessary to meet these requirements that are not already either federally promulgated, or part of the state’s SIP, or otherwise creditable in the SIP, must be submitted in enforceable form as part of the state’s attainment plan for the area.\footnote{62}{CAA section 172(c)(6) requires that nonattainment area plans include enforceable emission limitations, and such other control measures (including economic incentives such as fees, marketable permits, and auctions of emission rights), as well as schedules and timetables for compliance, as may be necessary or appropriate to provide for timely attainment of the NAAQS.\footnote{63}{Under the 2008 Ozone SRR, all control measures needed for attainment must be implemented no later than the beginning of the attainment year ozone season.}\footnote{64}{40 CFR 51.1106(d).}}

The AVAQMD and MDAQMD Attainment Plans explain that they incorporate all RACM, and that the Districts have adopted or committed in the Attainment Plans to adopt all such measures.\footnote{65}{40 CFR 51.1106(h).} The Plans note the Districts’ reviews of stationary source rules conducted during the development of the RACT SIPs submitted to the EPA in 2015,\footnote{66}{AVAQMD Attainment Plan, 6–7, and MDAQMD Attainment Plan, 7.} and set out the Districts’ schedules for adopting rules identified in those reviews.\footnote{67}{An additional schedule for adoption of RACM rules is contained in the Appendix B, "Ozone RACM Assessment," of both the AVAQMD and MDAQMD Attainment Plans. Appendix

b. CARB’S RACM Analysis

Source categories for which CARB has primary jurisdiction for reducing emissions in California include most new and existing on- and off-road engines and vehicles, motor vehicle fuels, and consumer products. CARB’s RACM assessment is contained in the Appendix E, "Ozone RACM Assessment," of both the AVAQMD and MDAQMD Attainment Plans. Appendix

\footnote{68}{CARB Staff Report, Appendix D–3 and E–3. See also CARB Staff Report, 10.}
The districts examined existing control measures and determined that controls from RACT and mobile source emission control programs will not advance the West Mojave Desert’s attainment year for the 2008 ozone standards.74

3. The EPA’s Review of the State’s Submission

The TSD for this action includes additional analysis to evaluate the Districts’ and CARB’s RACM assessments.74 In that analysis, we estimate that a 1.2 pdt reduction of NOx emissions would be necessary to advance attainment by one year from 2026 to 2025, and conservatively identify no more than 1.04 pdt of additional reductions that could be achieved through implementation of potential RACM for stationary sources. Based on this analysis, we agree with the Districts’ and CARB’s conclusion that there are no additional RACM that would advance attainment of the 2008 ozone standards in the WMD by at least one year.

We also find that CARB’s consumer products program comprehensively addresses emissions from consumer products in the WMD. CARB measures are more stringent than the EPA’s consumer products regulation promulgated in 1998,75 and generally exceed the controls in place throughout other areas of the country. We agree with CARB’s conclusion that its mobile source regulations include all reasonably available controls.

For the WMD, given the significant influence of pollutant transport from the South Coast Air Basin and the minimal and diminishing emissions benefits generally associated with TCMs, no new TCMs implemented in the WMD, alone or in combination with potential additional rules, would contribute to advancing the attainment date in the WMD by one year. Therefore, no new TCMs are required to satisfy the RACM requirement in the WMD.

For the foregoing reasons, and as addressed more fully in the TSD for this action, we propose to find that the 2016 Attainment Plan provides for the implementation of all RACM as required by CAA section 172(c)(1) and 40 CFR 51.1112(c).

D. Attainment Demonstration

1. Statutory and Regulatory Requirements

An attainment demonstration consists of the following: (1) Technical analyses, such as base year and future year modeling, to locate and identify sources of emissions that are contributing to violations of the ozone NAAQS within the nonattainment area (i.e., analyses related to the emissions inventory for the nonattainment area and the emissions reductions necessary to attain the standard); (2) a list of adopted measures (including RACT controls) with schedules for implementation and other means and techniques necessary and appropriate for demonstrating RFP and attainment as expeditiously as practicable but no later than the outside attainment date for the area’s classification; (3) a RACM analysis; and (4) contingency measures required under sections 172(c)(9) and 182(c)(9) of the CAA that can be implemented without further action by the state or the EPA to cover emissions shortfalls in RFP plans and failures to attain.76 This subsection of this proposed rule addresses the first two components of the attainment demonstration—the technical analyses and a review of adopted measures. Section III.C of this document, “Reasonably Available Control Measures Demonstration,” addresses the RACM component, and section III.G, “Contingency Measures,” addresses the contingency measures component of the attainment demonstration in the Attainment Plans.

With respect to the technical analyses, section 182(c)(2)(A) of the CAA requires that a plan for an ozone nonattainment area classified “Serious” or above include a “demonstration that the plan . . . will provide for attainment of the ozone [NAAQS] by the applicable attainment date. This attainment demonstration must be based on photochemical grid modeling or any other analytical method determined . . . to be at least as effective.” The attainment demonstration predicts future ambient concentrations for comparison to the NAAQS, making use of available information on measured concentrations, meteorology, and current and projected emissions inventories of ozone precursors, including the effect of control measures in the plan. Areas classified Severe-15 for the 2008 ozone NAAQS must demonstrate attainment as expeditiously as practicable, but no later than 15 years

71 See, e.g., the EPA’s approval of standards and other requirements to control emissions from on- and off-road mobile source regulatory actions taken by CARB from 1985 through 2016. The RACM assessment contains CARB’s evaluation of mobile source and other statewide control measures that reduce emissions of NOx and VOC in the WMD.

72 Local Jurisdictions’ RACM Analysis and Transportation Control Measures

The supplemental RACM assessments included as addendums to appendices D and E of the CARB Staff Report address the Districts’ RACM findings, including for transportation control measures (TCMs). These addendums state that the

73 CARB Staff Report, Appendix D–3 and E–3.


75 63 FR 48819 (September 11, 1998).

76 78 FR 34178, 34184 (June 6, 2013), the EPA’s proposed rule for implementing the 2008 ozone NAAQS.
after the effective date of designation as nonattainment. The WMD was designated nonattainment for the 2008 ozone NAAQS effective July 20, 2012,77 and accordingly must demonstrate attainment of the standards by no later than July 20, 2027.78 An attainment demonstration must show attainment of the standards for a full calendar year before the attainment date, so in practice, Severe-15 nonattainment areas must demonstrate attainment no later than 2026.

The EPA’s recommended procedures for modeling ozone as part of an attainment demonstration are contained in “Modeling Guidance for Demonstrating Attainment of Air Quality Goals for Ozone, PM2.5, and Regional Haze” (“Modeling Guidance”).79 The Modeling Guidance includes recommendations for a modeling protocol, model input preparation, model performance evaluation, use of model output for the numerical NAAQS attainment test, and modeling documentation. Air quality modeling is performed using meteorology and emissions from a base year, and the predicted concentrations from this base case modeling are compared to air quality monitoring data from that year to evaluate model performance. Once the model performance is determined to be acceptable, future year emissions are simulated with the model. The relative (or percent) change in modeled concentration due to future emissions reductions provides a relative response factor (RRF). Each monitoring site’s RRF is applied to its monitored base year design value to provide the future design value for comparison to the NAAQS. The Modeling Guidance also recommends supplemental air quality analyses, which may be used as part of a weight of evidence (WOE) analysis. A WOE analysis corroborates the attainment demonstration by considering evidence other than the main air quality modeling attainment test, such as trends and additional monitoring and modeling analyses.

The Modeling Guidance also does not require a particular year to be used as the base year for 8-hour ozone plans.80 The Modeling Guidance states that the most recent year of the National Emissions Inventory may be appropriate for use as the base year for modeling, but that other years may be more appropriate when considering meteorology, transport patterns, exceptional events, or other factors that may vary from year to year.81 Therefore, the base year used for the attainment demonstration need not be the same year used to meet the requirements for emissions inventories and RRF.

With respect to the list of adopted measures, CAA section 172(c)(6) requires that nonattainment area plans include enforceable emissions limitations, and such other control measures, means or techniques (including economic incentives such as fees, marketable permits, and auctions of emission rights), as well as schedules and timetables for compliance, as may be necessary or appropriate to provide for timely attainment of the NAAQS.82 Under the 2008 Ozone SRR, all control measures needed for attainment must be implemented no later than the beginning of the attainment year ozone season.83 The attainment year ozone season is defined as the ozone season immediately preceding a nonattainment area’s outermost attainment date.84 For the West Mojave Desert, the outermost attainment year is 2026.

2. Summary of the State’s Submission

a. Photochemical Modeling

The 2016 WMD Attainment Plan includes photochemical modeling for the 2008 ozone NAAQS. The South Coast Air Quality Management District (SCAQMD) performed the air quality modeling for the 2016 WMD Attainment Plan, as part of the Final 2016 Air Quality Management Plan for the South Coast Air Quality Management District (“SCAQMD 2016 AQMP”).85 The modeling relies on a 2012 base year and demonstrates attainment of the 2008 ozone NAAQS by the applicable Severe-15 area attainment year (i.e., 2026). The modeling and modeled attainment demonstration are described in Chapter 4, “Attainment Demonstration,” of the 2016 WMD Attainment Plan and in Appendix D, “Western Mojave Desert Modeling Analysis.” The AVAQMD Attainment Plan and the MDAQMD Attainment Plan also reference Appendix V of the SCAQMD 2016 AQMP for additional information on the modeled attainment demonstration.

The modeling protocol is in Chapter 2, “Modeling Protocol,” of Appendix V of the SCAQMD 2016 AQMP and contains all the elements recommended in the Modeling Guidance. Those include the following: Selection of model, time period to model, modeling domain, and model boundary conditions and initialization procedures; a discussion of emissions inventory development and other model input preparation procedures; model performance evaluation procedures; selection of days; and other details for calculating RRFs. Appendix V of the SCAQMD 2016 AQMP also provides the coordinates of the modeling domain and thoroughly describes the development of the modeling emissions inventory, its spatial and temporal allocation, its temperature dependency, and quality assurance procedures.

The modeling analysis uses version 5.0.2 of the Community Multiscale Air Quality (CMAQ) photochemical model, developed by the EPA. To prepare meteorological input for CMAQ, the modeling analysis uses the Weather and Research Forecasting model version 3.6 (WRF) from the National Center for Atmospheric Research. CMAQ and WRF are both recognized in the Modeling Guidance as technically sound, state-of-the-art models. The areal extent and the horizontal and vertical resolution used in these models are adequate for modeling West Mojave Desert ozone.

The SCAQMD assessed the performance of the WRF meteorological model through a series of simulations, and the SCAQMD concluded that the daily WRF simulation for 2012 provided representative meteorological fields that characterized the observed conditions well. The SCAQMD’s conclusions are supported by hourly time series graphs of wind speed, direction, and temperature.86

Ozone model performance statistics are described in Appendix D, “West Mojave Desert Community Multiscale Air Quality Model Performance Analysis,” of both the AVAQMD and MDAQMD Attainment Plans, which include tables of statistics.

---

77 77 FR 30088 (May 21, 2012).
78 80 FR 12264 (March 6, 2015).
79 See also CAA section 172(c)(6).
80 See CMAQ, photochemical model, and WRF.
81 80 Modeling Guidance at section 2.7.1, 35.
82 Id.
83 See also CAA section 110(a)(2)(A).
84 40 CFR 51.1108(c).
recommended in the Modeling Guidance for 8-hour daily maximum ozone for the WMD. This section presents hourly time series, as well as density scatter plots and plots of bias against concentration. Note that because only relative changes are used from the modeling, the overprediction or underprediction of absolute ozone concentrations does not mean that future concentrations will be overestimated or underestimated.

After model performance for the 2012 base case was accepted, the model was applied to develop RRFs for the attainment demonstration. This entailed running the model with the same meteorological inputs as before, but with adjusted emissions inventories to reflect the expected changes between 2012 and the 2026 attainment year. The base year or “reference year” modeling inventory was the same as the inventory for the modeling base case. The 2026 inventory projects the base year into the future by including the effect of economic growth and emissions control measures. The set of 153 days from May 1 through September 30, 2012, was simulated and analyzed to determine daily 8-hour average maximum ozone concentrations for the 2020 emissions inventory. To develop the RRFs for the 2008 ozone NAAQS, only the top 10 days were used.

The Modeling Guidance addresses attainment demonstrations with ozone NAAQS based on 8-hour averages. For the 2008 ozone NAAQS, Appendix D of the 2016 WMD Attainment Plan includes the attainment test procedure consistent with the Modeling Guidance. The RRFs were calculated as the ratio of future to base year concentrations. The resulting RRFs were then applied to 2012 weighted base year design values for each monitor to arrive at a 2026 future year design value. The 2016 WMD Attainment Plan narrowly projects that the West Mojave Desert will reach modeled attainment in 2023, with the highest ozone design value of 0.0759 ppm at the Phelan monitor station (station number: 06—071—0012), this value demonstrates attainment of the corresponding 2008 ozone NAAQS of 0.075 ppm. Appendix B of the CARB Staff Report presents a WOE analysis with further discussion of the modeling for the area. The WOE analysis includes the following: An evaluation of ambient ozone trends; precursor emissions trends for the region (i.e., the South Coast Air Basin, San Joaquin Valley, and the WMD); an evaluation of diurnal ozone monitoring trends; and a conceptual model that describes the conditions that create the exceedances of the 2008 ozone NAAQS. These evaluations complement the photochemical modeling analysis for the area and show that the area’s timely attainment is dependent on continuing future reductions from implementation of control measures in neighboring upwind nonattainment areas. The WOE analysis concludes that, based on these upwind reductions from neighboring nonattainment areas, the WMD will attain the 2008 ozone standard by 2026.

Finally, Appendix D of each of the Districts’ Attainment Plans includes an unmonitored area analysis for the 2008 ozone NAAQS to assess the attainment status of locations other than monitoring sites. The unmonitored area analysis in the 2016 WMD Attainment Plan shows concentrations below the 2008 ozone NAAQS for all locations.

h. Control Strategy

The control strategy for attainment of the 2008 ozone NAAQS in the WMD relies on timely attainment in 2023 of the 1997 ozone NAAQS in the upwind Los Angeles-South Coast Air Basin, which is the same year the WMD model shows attainment. The attainment plan for the 2008 ozone NAAQS for the South Coast Air Basin, which has been previously approved by the EPA, projects a 277 tpd reduction in NOX and a 121 tpd reduction in VOC from 2012 base year emissions (522 tpd for NOX and 500 tpd for VOC). In addition, the 2008 ozone attainment plan for the San Joaquin Valley, which has also been previously approved by the EPA, projects a 214.6 tpd reduction of NOX and 34.4 tpd reduction of VOC in 2023, from 2012 base year emissions (339.6 tpd for NOX and 337.3 tpd for VOC in 2011). Both upwind areas continue to show emission reductions through 2026 and beyond.

Within the WMD, the control strategy for attainment of the 2008 ozone NAAQS in the 2016 WMD Attainment Plan relies primarily on emissions reductions from baseline (i.e., already-adopted) measures. These baseline control measures include the Districts’ stationary source rules, and CARB’s mobile source and consumer product rules adopted through 2016, as listed in Appendix F of the 2016 WMD Attainment Plan, “CARB Adopted Mobile Source Programs.”

The attainment demonstration and base year emissions inventory use a 2012 base year (101.09 tpd of NOX and 43.69 tpd of VOC), and consistent with South Coast II, the RFP demonstration relies on a 2011 baseline year. The attainment year emissions estimate for the attainment demonstration is the same as the previously approved the AVAQMD Attainment Plan and 2018 SIP Update (68.5 tpd of NOX and 40.5 tpd of VOC) and represents a 30.3 percent NOX reduction and a 13.4 percent VOC reduction from the 2012 emissions inventory base year emissions.

c. Attainment Demonstration

Chapter 4 of the Districts’ Attainment Plans describes the attainment demonstration in general terms, including photochemical modeling results. Chapter 4 references Appendix V of the SCAQMD 2016 AQMP, which provides information on the modeling protocol. Appendix D of the District’s Attainment Plans contains model results and performance for the WMD. The WOE analysis in Appendix B to the CARB Staff Report includes additional supporting information to complement the photochemical modeling and to provide context for this attainment.

---

87 The Modeling Guidance recommends that RRFs be applied to the average of three three-year design values centered on the base year, in this case the design years 2012, 2011–2013, and 2012–2014. This amounts to a 5-year weighted average of individual year 4th-high concentrations, centered on the base year of 2012, and so is referred to as a weighted design value.

88 Table 5 of Appendix A–1 of the CARB Staff Report.

89 Appendix P of 40 CFR part 50 for a discussion of reporting and handling procedures for the primary and secondary ozone standards that discusses truncating the third digit to the right of the decimal place.

90 Appendix B, CARB Staff Report, B-30. The TSO for this action includes additional discussion of the modeled attainment demonstration and WOE analysis that support this conclusion. Figure 3: 2023 Predicted 8-hr Ozone Design Values, Appendix D, of both Districts Attainment Plans.

91 Appendix B, CARB Staff Report, B-2.

92 Approval of Air Quality Implementation Plans; California; South Coast Air Basin; 1-Hour and 8-Hour Ozone Nonattainment Area Requirements, Proposed Rule, 84 FR 28132 (June 17, 2019). EPA approved the San Joaquin Valley plan for the 2006 ozone NAAQS at 84 FR 3302 (February 12, 2018).

93 Technical Support Document: Clean Air Plans; 2008 8-Hour Ozone Nonattainment Area Requirements; South Joaquin Valley, California, Proposition 88—OAR—2020—0254, Tables 1 and 2. The modeling base year emissions were taken from Table 1 and Appendix A of the AVAQMD and MDAQMD Attainment Plans. The CARB Staff Report notes 2012 base year emissions from the Districts’ plans were average day emissions, i.e., averaged over the entire year, rather than average summer day emissions, which are included in Appendix A of the CARB Staff Report and were submitted as the 2012 base year emissions.
demonstration, such as ambient ozone data, a conceptual model of ozone formation, anthropogenic emission trends, ozone trends, and a discussion of the attainment projections. Baseline measures are expected to reduce 2012 base year emissions of NOX by 30.7 percent and VOC emissions by 13 percent by 2026, and to attain the 2008 ozone NAAQS in the WMD by 2023, three years ahead of the outermost attainment year, 2026.

3. The EPA’s Review of the State’s Submission

a. Photochemical Modeling

The EPA has reviewed the modeling platform and agrees that the CMAQ (version 5.0.2) modeling platform, and the WRF (version 3.6.1) meteorological fields are appropriate for the ozone attainment demonstration. After review, the EPA is satisfied that the meteorological model, WRF, performed adequately. The diurnal variation of temperature, humidity and surface wind are well represented by WRF. The EPA has also reviewed the time series, scatter plots, and ozone performance, and determined that overall, the CMAQ photochemical modeling performance for ozone is acceptable.

We are proposing to find the air quality modeling adequate to support the attainment demonstrations for the 2008 ozone NAAQS, based on reasonable meteorological and ozone modeling performance, supported by the weight of evidence analyses.

b. Control Strategy

Based on our review of the emissions inventory documentation in the CARB Staff Report, we find that CARB and the Districts have used the most recent planning and activity assumptions, emissions models, and methodologies to estimate the effect of the control strategy on the baseline and milestone year emissions inventories. The 2016 WMD Attainment Plan relies on state and locally adopted baseline control measures, i.e., already-adopted control measures, to achieve the emissions reductions needed to attain the 2008 ozone NAAQS. The baseline measures are approved into the SIP and, as such, are fully creditable within the attainment demonstration analysis. Accordingly, we propose to find that the emissions reductions that are relied on for attainment are creditable and sufficient to provide for attainment.

c. Attainment Demonstration

Based on our review of the 2016 WMD Attainment Plan and our proposed findings that the photochemical modeling and control strategy are acceptable and demonstrate attainment by July 20, 2027, we propose to approve the attainment demonstration for the 2008 ozone NAAQS in the 2016 WMD Attainment Plan as meeting the requirements of CAA section 182(c)(2)(A) and 40 CFR 51.1108. The Districts’ Attainment Plans and the WOE in the CARB Staff Report demonstrate that the ozone design value in the WMD will meet the 0.075 ppm standard by 2026, and therefore will meet the attainment date of July 20, 2027, for the 2008 ozone standard. While the submitted modeling projects that attainment is possible in advance of the 2026 deadline, the EPA is relying on the modeling, additional information provided in the WOE, and current ozone trends, to conclude that the WMD will attain the 2008 ozone NAAQS by 2026, consistent with the outermost attainment date of July 20, 2027. See the TSD for additional information.

E. Rate of Progress Plan and Reasonable Further Progress Demonstration

1. Statutory and Regulatory Requirements

Requirements for RFP are specified in CAA sections 172(c)(2), 182(b)(1), and 182(c)(2)(B). CAA section 172(c)(2) requires that plans for nonattainment areas provide for RFP, which is defined at CAA section 171(1) as such annual incremental reductions in emissions of the relevant air pollutant as are required under part D, “Plan Requirements for Nonattainment Areas,” or may reasonably be required by the EPA for the purpose of ensuring attainment of the applicable NAAQS by the applicable date. CAA section 182(b)(1) specifically requires that ozone nonattainment areas that are classified as “Moderate” or above demonstrate a 15 percent reduction in VOC between the years of 1990 and 1996. The EPA has typically referred to section 182(b)(1) as the rate of progress (ROP) requirement. For ozone nonattainment areas classified as Serious or higher, section 182(c)(2)(B) requires reductions averaged over each consecutive 3-year period beginning 6 years after the baseline year until the attainment date of at least 3 percent of baseline emissions per year. CAA section 182(c)(2)(B)(ii) allows an amount less than 3 percent of such baseline emissions each year if the state demonstrates to the EPA that the plan includes all measures that can feasibly be implemented in the area in light of technological achievability. The 2008 ozone SRR considers areas classified Moderate or higher to have met the ROP requirements of CAA section 182(b)(1) if the area has a fully approved 15 percent ROP plan for the 1-hour or 1997 8-hour ozone standards, provided the boundaries of the ozone nonattainment areas are the same. For such areas, the RFP requirements of CAA section 172(c)(2) require areas classified as Moderate to provide a 15 percent emission reduction of ozone precursors within 6 years of the baseline year. Areas classified as Serious or higher must meet the RFP requirements of CAA section 182(c)(2)(B) by providing an 18 percent reduction of ozone precursors in the first 6-year period, and an average ozone precursor emission reduction of 3 percent per year for all remaining 3-year periods thereafter. Under CAA 182(c)(2)(C), a state may substitute NOX emissions reductions for VOC emissions reductions.

Except as specifically provided in CAA section 182(b)(1)(C), emission reductions from all SIP- approved, federally promulgated, or otherwise SIP- creditable measures that occur after the baseline are creditable for purposes of demonstrating that the RFP targets are met. Because the EPA has determined that the passage of time has caused the effect of certain exclusions to be de minimis, the RFP demonstration is no longer required to calculate and specifically exclude reductions from measures related to motor vehicle exhaust or evaporative emissions promulgated by January 1, 1990; regulations concerning Reid vapor pressure promulgated by November 15, 1990; measures to correct previous RACT requirements; and measures required to correct previous vehicle inspection and maintenance (I/M) programs.

The 2008 Ozone SRR requires the RFP baseline year to be the most recent calendar year for which a complete triennial inventory is required to be submitted to the EPA (i.e., 2011). As discussed above, the 2008 Ozone SRR provided states with the opportunity to use an alternative baseline year for RFP, but this provision was vacated by the D.C. Circuit in the South Coast II decision.

2. Summary of the State’s Submission

The 2016 WMD Attainment Plan addresses the 15 percent ROP requirement by noting that the EPA had proposed approval of the 15 percent ROP plan for the 1997 ozone NAAQS for the WMD, and that the 1997 ozone nonattainment area covers the entire

97 80 FR 12264, 12271 (March 6, 2015).
98 Id.
99 40 CFR 51.1110(a)(7).
100 40 CFR 51.1110(b).
nonattainment area for the 2008 ozone standards.\(^{101}\) The EPA approved the 15 percent ROP demonstration for the 1997 ozone NAAQS, effective July 24, 2017.\(^{102}\)

With respect to the RFP demonstration requirement, the 2016 WMD Attainment Plan includes an RFP demonstration derived from a 2012 RFP baseline year.\(^{103}\) In response to the South Coast II decision, CARB developed the 2018 SIP Update, which includes a section that replaces the RFP portion of the 2016 WMD Attainment Plan with an updated RFP demonstration based on a 2011 RFP baseline year.\(^{104}\) To develop the 2011 RFP baseline inventory, CARB relied on actual emissions reported from industrial point sources for year 2011. For emissions from smaller stationary sources and area sources, CARB backcast emissions from 2012 to 2011 using the same growth and control factors as were used for the 2016 WMD Attainment Plan. To develop the emissions inventories for the 2017, 2020 and 2023 RFP milestone years, CARB also relied upon the same growth and control factors as the 2016 WMD Attainment Plan. Therefore, the emissions estimates for the attainment year, 2026, are consistent in both the 2018 SIP Update and the 2016 WMD Attainment Plan.

### TABLE 2—WMD RFP DEMONSTRATION FOR THE 2008 OZONE NAAQS

<table>
<thead>
<tr>
<th>[Summer planning inventory, tpd or percent]</th>
<th>2011</th>
<th>2017</th>
<th>2020</th>
<th>2023</th>
<th>2026</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VOCs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline VOC</td>
<td>48.7</td>
<td>41.5</td>
<td>40.4</td>
<td>40.4</td>
<td>40.5</td>
</tr>
<tr>
<td>Transportation conformity safety margin</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.2</td>
</tr>
<tr>
<td>Baseline VOC + safety margin</td>
<td>48.7</td>
<td>41.5</td>
<td>40.4</td>
<td>40.4</td>
<td>40.7</td>
</tr>
<tr>
<td>Required % change since 2011</td>
<td>18%</td>
<td>27%</td>
<td>36%</td>
<td>45%</td>
<td>50%</td>
</tr>
<tr>
<td>Target VOC level</td>
<td>40.0</td>
<td>35.6</td>
<td>31.2</td>
<td>26.8</td>
<td>32.6</td>
</tr>
<tr>
<td>Apparent shortfall/surplus, tpd</td>
<td>-1.5</td>
<td>-4.8</td>
<td>-9.2</td>
<td>-13.9</td>
<td>-18.4</td>
</tr>
<tr>
<td>Apparent shortfall ( - )/surplus (+) in VOC</td>
<td>-3.1%</td>
<td>-9.9%</td>
<td>-18.8%</td>
<td>-28.4%</td>
<td>-38.5%</td>
</tr>
<tr>
<td>VOC shortfall previously provided by NOx substitution, %</td>
<td>0</td>
<td>3.1%</td>
<td>9.9%</td>
<td>18.8%</td>
<td>28.4%</td>
</tr>
<tr>
<td>Actual VOC shortfall ( - )/surplus (+), %</td>
<td>-3.1%</td>
<td>-6.8%</td>
<td>-8.9%</td>
<td>-9.6%</td>
<td></td>
</tr>
</tbody>
</table>

| **NOx** | | | | | |
| Baseline NOx | 98.4 | 84.5 | 79.8 | 72.1 | 68.5 |
| Transportation conformity safety margin | 0 | 0 | 0 | 0 | 0.4 |
| Baseline NOx + safety margin | 98.4 | 84.5 | 79.8 | 72.1 | 68.9 |
| Change in NOx since 2011, tpd | -13.8 | -18.6 | -26.2 | -29.4 | -32.1 |
| Change in NOx since 2011, % | 14.1% | 18.9% | 26.7% | 29.9% | 32.1% |
| NOx reductions used for VOC substitution through last milestone year, % | 0 | 3.1% | 9.9% | 18.8% | 28.4% |
| NOx reductions since 2011 available for VOC substitution in this milestone year, % | 14.1% | 15.8% | 16.7% | 11.1% | 9.5% |
| NOx reductions since 2011 available for VOC substitution in this milestone year, % | 3.1% | 6.8% | 8.9% | 9.6% | 10.9% |
| NOx reductions since 2011 surplus after meeting VOC substitution needs in this milestone year, % | 10.9% | 9.0% | 7.9% | 1.5% | 0% |
| Total shortfall for RFP | 0% | 0% | 0% | 0% | 0% |
| RFP met? | Yes | Yes | Yes | Yes | Yes |

Source: Table VI–2, 2018 SIP Update.

The revised RFP demonstration calculates future year VOC targets from the 2011 baseline, consistent with CAA 182(c)(2)(B)(i), which requires reductions of “at least 3 percent of baseline emissions each year,” and it substitutes NOx reductions for VOC reductions beginning in milestone year 2017 to meet VOC emission targets. NOx substitution is permitted under EPA regulations at 40 CFR 51.1110(a)(2)(i)(C) and 40 CFR 51.1110(a)(2)(ii)(B). As stated in the WOE in the CARB Staff Report, “given Western Mojave’s downwind location from the only two extreme ozone nonattainment areas in the region, it is expected that ozone formation would be limited by available NOx emissions,” meaning that NOx reductions would be more effective at reducing ozone concentrations than VOC reductions. For the WMD, CARB concluded that the revised RFP demonstration meets the applicable requirements for each milestone year as well as the attainment year.

3. The EPA’s Review of the State’s Submission

Consistent with the 2008 Ozone SRR, the EPA’s final approval of the 15 percent ROP demonstration for the 1997 ozone NAAQS fulfills the requirements of CAA section 182(b)(1) for WMD for the 2008 ozone NAAQS.\(^{105}\) With respect to the RFP demonstration requirement, based on

\(^{101}\) Chapter 3 of both Districts’ Attainment Plans.\(^{102}\) 82 FR 28560 (June 23, 2017).\(^{103}\) 82 FR 28560 (June 23, 2017).\(^{104}\) Chapter VI of the 2018 SIP Update.\(^{105}\) 82 FR 13086 (March 9, 2017).
our review of the emissions inventory documentation in the 2018 SIP Update, we find that CARB and the District have used the most recent planning and activity assumptions, emissions models, and methodologies in developing the RFP baseline and milestone year emissions inventories. We have also reviewed and verified the calculations in Table VI–3 of the 2018 SIP Update. Furthermore, we find that NOX emission reductions are as effective as VOC emission reductions in reducing levels of ozone within the Western Mojave Desert. For these reasons, we have determined that the 2018 SIP Update demonstrates RFP in the 2017, 2020, and 2023 milestone years as well as the 2026 milestone/attainment year, consistent with applicable EPA requirements and EPA guidance. Therefore, we propose to approve the RFP demonstration for the WMD for the 2008 ozone NAAQS under sections 172(c)(2) and 182(c)(2)(B) of the CAA and 40 CFR 51.1110(a)(2)(ii).

F. Transportation Control Strategies and Measures To Offset Emissions Increases From Vehicle Miles Traveled

1. Statutory and Regulatory Requirements

Section 182(d)(1)(A) of the Act requires a state to submit a revision for each area classified as Serious or above that identifies and adopts specific enforceable transportation control strategies (TCSs) and transportation control measures (TCMs) to offset any new growth in emissions from growth in vehicle miles traveled (VMT) or number of vehicle trips in such area. Herein, we use “VMT” to refer to vehicle miles traveled and refer to the related SIP requirement as the “VMT emissions offset requirement.” In addition, we refer to the SIP revision intended to demonstrate compliance with the VMT emissions offset requirement as the “VMT emissions offset demonstration.”

In Association of Irritated Residents v. EPA, the United States Court of Appeals for the Ninth Circuit (“Ninth Circuit”) ruled that additional TCMs are required whenever vehicle emissions are projected to be higher than they would have been had VMT not increased, even when aggregate vehicle emissions are actually decreasing. In response to the Ninth Circuit’s decision, the EPA issued a memorandum titled “Guidance on Implementing Clean Air Act Section 182(d)(1)(A): Transportation Control Measures and Transportation Control Strategies to Offset Growth in Emissions Due to Growth in Vehicle Miles Traveled” (“August 2012 Guidance”). The August 2012 Guidance discusses the meaning of TCSs and TCMs and recommends that both TCSs and TCMs be included in the calculations made for the purpose of determining the degree to which any hypothetical growth in emissions due to growth in VMT should be offset. Generally, TCSs encompass many types of controls (including, for example, motor vehicle emissions limitations, I/M programs, alternative fuel programs, other technology-based measures, and TCMs) that would fit within the regulatory definition of “control strategy.” Such measures include, but are not limited to, those listed in CAA section 108(f). TCMs are defined at 40 CFR 51.100(r) as meaning “any measure that is directed toward reducing emissions of air pollutants from transportation sources,” including, but not limited to, those listed in section 108(f) of the CAA. TCMs generally refer to programs intended to reduce VMT, the number of vehicle trips, or traffic congestion, including, e.g., programs for improved public transit, designation of certain lanes for passenger buses and high-occupancy vehicles, and trip reduction ordinances.

The August 2012 Guidance explains how states may demonstrate that the VMT emissions offset requirement is satisfied in conformance with the Ninth Circuit’s ruling. The August 2012 Guidance recommends that states estimate emissions for the nonattainment area’s base year and attainment year. One emissions inventory is developed for the base year, and three different emissions inventory scenarios are developed for the attainment year. For the attainment year, the state would present three emissions estimates, two of which would represent hypothetical emissions scenarios that would provide the basis to identify the growth in emissions due solely to the growth in VMT, and one that would represent projected actual motor vehicle emissions after fully accounting for projected VMT growth and offsetting emissions reductions obtained by all creditable TCSs and TCMs. See the August 2012 Guidance for specific details on how states might conduct the calculations.

The base year on-road VOC emissions should be calculated using VMT in that year and should reflect all enforceable TCSs and TCMs in place in the base year. This would include vehicle emissions standards, state and local control programs such as I/M programs or fuel rules, and any additional implemented TCSs and TCMs that were already required by or credited in the SIP as of that base year.

The first of the emissions calculations for the attainment year would be based on the projected VMT and trips for that year and assume that no new TCSs or TCMs beyond those already credited in the base year inventory have been put in place since the base year. This calculation demonstrates how emissions would hypothetically change if no new TCSs or TCMs were implemented, and VMT and trips were allowed to grow at the projected rate from the base year. This estimate would show the potential for an increase in emissions due solely to growth in VMT and trips. This represents a “no action” scenario. Emissions in the attainment year in this scenario may be lower than those in the base year due to fleet turnover; however, if VMT and/or numbers of vehicle trips are projected to increase in the attainment year, emissions would still likely be higher than if VMT had held constant.

The second of the attainment year’s emissions calculations would assume that no new TCSs or TCMs beyond those already credited have been put in place since the base year, but it would also assume that there was no growth in VMT and trips between the base year and attainment year. This estimate reflects the hypothetical emissions level that would have occurred if no further TCSs or TCMs had been put in place and if VMT and trip levels had held constant since the base year. Like the “no action” attainment year estimate described above, emissions in the attainment year may be lower than those in the base year due to fleet turnover, but in this case emissions would not be...
influenced by any growth in VMT or trips. This emissions estimate would reflect a ceiling on the attainment emissions that should be allowed to occur under the statute as interpreted by the Ninth Circuit because it shows what would happen under a scenario in which no offsetting TCs or TCs have yet been put in place and VMT and trips are held constant during the period from the area’s base year to its attainment year. This represents a “VMT offset ceiling” scenario. These two hypothetical status quo estimates are necessary steps in identifying the target level of emissions from which states determine whether further TCs or TCs, beyond those that have been adopted and implemented in reality, would need to be adopted and implemented in order to fully offset any increase in emissions due solely to VMT and trips identified in the “no action” scenario.

Finally, the state would present the emissions that are actually expected to occur in the area’s attainment year after taking into account reductions from all enforceable TCs and TCs put in place after the baseline year. This estimate would be based on the VMT and trip levels expected to occur in the attainment year (i.e., the VMT and trip levels from the first estimate) and all of the TCs and TCs expected to be in place and for which the SIP will take credit in the area’s attainment year, including any TCs and TCs put in place since the base year. This represents the “projected actual” attainment year scenario. If this emissions estimate is less than or equal to the emissions ceiling that was established in the second of the attainment year emissions calculations, even after accounting for post-baseline year TCs and TCs, the state would need to adopt and implement additional TCs or TCs to further offset the growth in emissions. The additional TCs or TCs would need to bring the actual emissions down to at least the “had VMT and trips held constant” ceiling estimated in the second of the attainment year calculations, in order to meet the VMT offset requirement of section 182(d)(1)(A) as interpreted by the Ninth Circuit.

### 2. Summary of the State’s Submission

The VMT emissions offset demonstration for the WMD for the 2008 ozone NAAQS is contained in Chapter 3 of the Districts’ Attainment Plans. For the VMT emissions offset demonstration, CARB used EMFAC2014, the latest EPA-approved motor vehicle emissions model for California available at the time the 2016 WMD Attainment Plan was developed. The EMFAC2014 model estimates the on-road emissions from two combustion processes (i.e., running exhaust and start exhaust) and four evaporative processes (i.e., hot soak, running losses, diurnal losses, and resting losses). The EMFAC2014 model combines trip-based VMT data from the regional transportation planning agency (i.e., SCAG), starts data based on household travel surveys, and vehicle population data from the California Department of Motor Vehicles. These sets of data are combined with corresponding emission rates to calculate emissions.

Emissions from running exhaust, start exhaust, hot soak, and running losses are a function of how much a vehicle is driven. Emissions from these processes are thus directly related to VMT and vehicle trips, and the analysis included these emissions in the calculations that provide the basis for the WMD VMT emissions offset demonstration. The analysis did not include emissions from resting loss and diurnal loss processes in the analysis because such emissions are related to vehicle population, not to VMT or vehicle trips, and thus are not part of “any growth in emissions from growth in vehicle miles traveled or numbers of vehicle trips in such area” under CAA section 182(d)(1)(A).

The WMD VMT emissions offset demonstration uses a 2012 base year. The base year for VMT emissions offset demonstration purposes should generally be the same base year used for nonattainment planning purposes. In section III.A of this document, the EPA is proposing to approve the 2012 base year inventory for the WMD for the purposes of the 2008 ozone NAAQS, and thus, the selection of 2012 as the base year for the WMD VMT emissions offset demonstration for the 2008 ozone NAAQS is appropriate.

The WMD VMT emissions offset demonstration also includes the previously described three different attainment year scenarios (i.e., no action, VMT offset ceiling, and projected actual). The 2016 WMD Attainment Plan provides a demonstration of attainment of the 2008 ozone NAAQS in the WMD by the applicable attainment date, based on the controlled 2026 emissions inventory. As described in section III.D of this document, the EPA is proposing to approve the attainment demonstration for the 2008 ozone NAAQS for the WMD, and thus, we find the selection of year 2026 as the attainment year for the VMT emissions offset demonstration for the 2008 ozone NAAQS to be acceptable.

Table 3 summarizes the relevant distinguishing parameters for each of the emissions scenarios and shows CARB’s corresponding VOC emissions estimates for the demonstration for the 2008 ozone NAAQS.

### Table 3—VMT Emissions Offset Inventory Scenarios and Results for 2008 Ozone NAAQS

<table>
<thead>
<tr>
<th>Scenario</th>
<th>VMT Year</th>
<th>VMT 1,000 miles/day</th>
<th>Starts Year</th>
<th>Starts 1,000/day</th>
<th>Controls Year</th>
<th>Controls Tpd</th>
<th>VOC emissions Tpd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Year</td>
<td>2012</td>
<td>26,536</td>
<td>2012</td>
<td>4,470</td>
<td>2012</td>
<td>12.4</td>
<td></td>
</tr>
<tr>
<td>No Action</td>
<td>2026</td>
<td>34,724</td>
<td>2026</td>
<td>5,238</td>
<td>2012</td>
<td>6.5</td>
<td></td>
</tr>
<tr>
<td>VMT Offset Ceiling</td>
<td>2012</td>
<td>26,536</td>
<td>2012</td>
<td>4,470</td>
<td>2012</td>
<td>5.3</td>
<td></td>
</tr>
<tr>
<td>Actual Projected</td>
<td>2026</td>
<td>34,724</td>
<td>2026</td>
<td>5,238</td>
<td>2026</td>
<td>4.6</td>
<td></td>
</tr>
</tbody>
</table>


---

111AVAQMD Attainment Plan, 23, and MDAQMD Attainment Plan, 25.

112On August 15, 2019, the EPA approved and announced the availability of EMFAC2017, the latest update to the EMFAC model for use by State and local governments to meet CAA requirements. See 84 FR 41717.
3. The EPA’s Review of the State’s Submission

Based on our review of the WMD VMT emissions offset demonstration in the 2016 WMD Attainment Plan, we find CARB’s analysis to be consistent with our August 2012 Guidance and consistent with the emissions and vehicle activity estimates provided by CARB in support of the 2016 AQMMP. We agree that the TCSs and TCMs in place for the area are sufficient to offset the growth in emissions from growth in VMT and vehicle trips in the WMD for the purposes of the 2008 8-hour ozone standards. As such, we find that the WMD VMT emissions offset demonstration complies with the VMT emissions offset requirement in CAA section 182(d)(1)(A). Therefore, we propose approval of the WMD VMT emissions offset demonstration portion of the 2016 WMD Attainment Plan.

G. Contingency Measures

1. Statutory and Regulatory Requirements

Under the CAA, SIPs for 8-hour ozone nonattainment areas classified under subpart 2 as Moderate or above must include contingency measures consistent with sections 172(c)(9) and 182(c)(9). Contingency measures are additional controls or measures to be implemented in the event an area fails to make RFP or to attain the NAAQS by the attainment date. The SIP should specify a trigger mechanism for the contingency measures, specify a schedule for implementation, and indicate that the measure will be implemented without significant further action by the state or the EPA.

Neither the CAA nor the EPA’s implementing regulations establish a specific level of emissions reductions that implementation of contingency measures must achieve, but the EPA’s 2008 Ozone SRR reiterates the EPA’s policy that contingency measures should generally provide for emissions reductions approximately equivalent to one year’s worth of progress, amounting to reductions of 3 percent of the baseline emissions inventory for the nonattainment area.

It has been the EPA’s longstanding interpretation of CAA section 172(c)(9) that states may meet the contingency measure requirement by relying on federal measures (e.g., federal mobile source measures based on the incremental turnover of the motor vehicle fleet each year) and local measures already scheduled for implementation that provide emissions reductions in excess of those needed to provide for RFP or expeditious attainment. The key is that the Act requires contingency measures to provide for additional emissions reductions that are not relied on for RFP or attainment and that are not included in the RFP or attainment demonstrations as meeting part or all of the contingency measure requirements. The purpose of contingency measures is to provide continued emissions reductions while a plan is being revised to meet the missed milestone or attainment date.

The EPA has approved numerous SIPs under this interpretation—i.e., SIPs that use as contingency measures one or more federal or local measures that are in place and provide reductions in excess of the reductions required by the attainment demonstration or RFP plan, and there is case law supporting the EPA’s interpretation in this regard. However, in Bahr v. EPA, the Ninth Circuit rejected the EPA’s interpretation of CAA section 172(c)(9) as allowing for early implementation of contingency measures. The Ninth Circuit concluded that contingency measures must take effect at the time the area fails to make RFP or attain by the applicable attainment date, not before. The D.C. Circuit recently reached a similar conclusion regarding the contingency measure provisions in CAA sections 172(c)(9) and 182(c)(9), in Sierra Club v. EPA. Following these decisions, states cannot rely on early-implemented measures to comply with the contingency measure requirements under CAA section 172(c)(9) and 182(c)(9).

2. Summary of the State’s Submission

The Districts and CARB had largely prepared the 2016 WMD Attainment Plan prior to the Bahr and Sierra Club decisions; therefore, the plan relies solely upon surplus emissions reductions from already implemented control measures in the RFP milestone years to demonstrate compliance with the RFP milestone contingency measures requirements of CAA sections 172(c)(9) and 182(c)(9). The plan also demonstrates compliance with the attainment contingency measures requirements using surplus emissions reductions (in the year after the attainment year), and separately identifies use of the State’s enhanced I/M program as an attainment contingency measure.

In the 2018 SIP Update, CARB revised the RFP demonstration for the 2008 ozone NAAQS for the WMD and recalculated the extent of surplus emission reductions in the milestone years. Consistent with the Bahr decision (and the later Sierra Club decision), the 2018 SIP Update does not rely on the surplus or incremental emissions reductions to comply with the contingency measures requirements of sections 172(c)(9) and 182(c)(9) but instead documents the extent to which future baseline emissions would provide surplus emissions reductions beyond those required to meet applicable contingency measure requirements, to provide context for determining the magnitude of the contingency measures needed for the 2008 ozone NAAQS.

The 2018 SIP Update identifies one year’s worth of RFP as approximately 1.5 tpd of VOC. The 2018 SIP Update estimates surplus NOX reductions for RFP as ranging from approximately 10.7 tpd in 2017 to 7.8 tpd in 2023, and estimates that implementation of the state control measures will result in an additional 0.2 tpd VOC and 1.6 tpd of NOX emissions reductions occurring in the year after the attainment year.

In subsequent communications, CARB has clarified that the proposed contingency measure would involve implementation of enhanced I/M specifically in those areas of the WMD subject to MDAQMD jurisdiction that are currently subject only to basic I/M requirements. As described by the MDAQMD, within 30 days of a finding by the EPA that the WMD has either failed to meet an RFP milestone for the 2008 ozone NAAQS or failed to attain the 2008 ozone NAAQS by the...
attainment deadline, the MDAQMD Executive Officer will transmit a formal letter to the California Bureau of Automotive Repair (BAR) requesting implementation of the enhanced I/M program throughout the entirety of the portion of the WMD that is subject to the District’s jurisdiction. Upon receiving the District’s letter, BAR would initiate the program and notify the relevant stakeholders of the updated requirements in the area. This procedure is described in section 44003(c) of the California Health and Safety Code, and no additional regulations would need to be adopted. The MDAQMD has committed to submit a Board resolution further detailing the circumstances, timing, and procedure for implementing this contingency measure, within eleven months of the EPA’s final conditional approval of the contingency measures element of the 2016 WMD Attainment Plan, CARB, in turn, has committed to submit the Board resolution to the EPA for SIP approval within 12 months of the EPA’s final conditional approval.

3. The EPA’s Review of the State’s Submission

Sections 172(c)(9) and 182(c)(9) of the CAA require contingency measures to address potential failure to achieve RFP milestones or failure to attain the NAAQS by the applicable attainment date. To evaluate the contingency measure element of the 2016 WMD Attainment Plan, we find it useful to distinguish between contingency measures to address potential failure to achieve RFP milestones (“RFP contingency measures”) and contingency measures to address potential failure to attain the NAAQS (“attainment contingency measures”). With respect to the RFP contingency measure requirement, we have reviewed the surplus emissions estimates in each of the RFP milestone years, as shown in the 2018 SIP Update, and find that the calculations are correct. Therefore, we agree that the emission estimates from the 2018 SIP Update provide surplus reductions well beyond those necessary to demonstrate RFP in the RFP milestone years. While such surplus emissions reductions in the RFP milestone years do not represent contingency measures themselves, we believe they are relevant in evaluating the adequacy of RFP contingency measures that are submitted (or will be submitted) to meet the requirements of sections 172(c)(9) and 182(c)(9).

In this case, the MDAQMD and CARB have committed to develop, adopt, and submit a Board resolution further detailing the circumstances, timing, and procedure for implementing enhanced I/M requirements in the portion of the WMD that is currently subject to basic I/M, should the WMD fail to meet an RFP milestone. The specific commitment of the MDAQMD upon an RFP milestone failure (i.e., changing from basic to enhanced I/M) complies with the requirements in CAA sections 172(c)(9) and 182(c)(9) because it would be undertaken if the area fails to meet an RFP milestone and would take effect without further significant action by the District, the State, or the EPA.

To assess the adequacy of the RFP contingency measure (once adopted and submitted), we next consider the magnitude of emissions reductions the measure would provide if triggered. Neither the CAA nor the EPA’s implementing regulations for the ozone NAAQS establish a specific amount of emissions reductions that implementation of contingency measures must achieve, but we generally expect that contingency measures should provide for emissions reductions equivalent to approximately one year’s worth of RFP, which, for ozone, amounts to reductions of 3 percent of the baseline emissions inventory for the nonattainment area. For the 2008 ozone NAAQS in the WMD, one year’s worth of RFP is approximately 1.5 tpd of VOC, or 3.0 tpd of NOX, or a combination of two calculated on a percentage basis. In its commitment letter, CARB conservatively estimates the potential additional emissions reductions from the contingency measure commitments at 0.03 tpd of VOC and 0.04 tpd of NOX. While these amounts collectively reflect less than one year’s worth of RFP, the 2018 SIP Update provides the larger SIP planning context with which to judge the adequacy of the to-be-submitted District contingency measures, by calculating the surplus emissions reductions estimated to be achieved in the RFP milestone years.

For attainment contingency measure purposes, we evaluate the emissions reductions from the District’s contingency measures in the context of the expected reduction in emissions within the WMD in the year following the attainment year, relative to those occurring in the attainment year. In 2027, VOC and NOX emissions for the WMD are expected to be approximately 0.2 and 1.6 tpd, respectively, lower than the emissions in 2026. Considered together, the continuing reductions from already-implemented measures and the emissions reductions from the MDAQMD’s contingency measure provide for emissions reductions near to, but below, one year’s worth of progress. Therefore, we find that the

124 Letter dated March 29, 2021, from Brad Poirier, Executive Officer, MDAQMD, to Richard Corey, Executive Officer, CARB. The EPA approved California Health and Safety Code section 44003(c) into the California SIP at 75 FR 38023 (July 1, 2010).
125 Letter dated April 9, 2021, from Michael Benjamin, Chief, Air Quality Planning and Science Division, CARB, to Deborah Jordan, Acting Regional Administrator, EPA Region IX.
126 Letter dated April 9, 2021, from Michael Benjamin, Chief, Air Quality Planning and Science Division, CARB, to Deborah Jordan, Acting Regional Administrator, EPA Region IX.
127 Letter dated March 29, 2021, from Brad Poirier, Executive Officer, MDAQMD, to Richard Corey, Executive Officer, CARB.
128 Letter dated April 9, 2021, from Michael Benjamin, Chief, Air Quality Planning and Science Division, CARB, to Deborah Jordan, Acting Regional Administrator, EPA Region IX.
129 Section 182(c)(3) of the CAA requires states with ozone nonattainment areas classified under subpart 2 as Serious or above to implement an enhanced motor vehicle I/M program in each urbanized area within the nonattainment area. Section 182(c)(3) further explains that urbanized areas are “defined by the Bureau of the Census, with a 1980 population of 200,000 or more.” Because parts of the MDAQMD within the WMD were not considered urbanized areas in 1980, only part of the WMD is subject to enhanced I/M. All of the area under the jurisdiction of the AVAQMD is subject to enhanced I/M.
129 The 2011 baseline for VOC and NOX is 48.7 tpd and 98.4 tpd, respectively, as shown in table VI–1 of the 2018 SIP Update. Three percent of these baselines is 1.5 tpd of VOC and 3.0 tpd of NOX.
130 2018 SIP Update, Table VI–5.
131 Combined reductions (0.23 tpd VOC and 1.64 tpd NOX) represent 70 percent of one year’s RFP (15.3 percent of 1.5 tpd VOC; 54.7 percent of 3.0 tpd NOX).
contingency measures described in the MDAQMD’s and CARB’s commitment letters would provide sufficient emissions reductions to satisfy the attainment contingency measures requirement, even though reductions from the measures would be lower than one year’s worth of RFP.

For these reasons, we propose to conditionally approve the contingency measures element of the 2016 WMD attainment plan, as supplemented by the commitment from the MDAQMD and CARB to adopt and submit an MDAQMD Board resolution detailing the circumstances, timing, and procedure for implementing the contingency measure requirements of CAA sections 172(c)(9) and 182(c)(9). Our proposed approval is conditional because it relies upon specific commitments from MDAQMD and CARB. Conditional approvals are authorized under CAA section 110(k)(4).

**H. Motor Vehicle Emissions Budgets for Transportation Conformity**

1. **Statutory and Regulatory Requirements**

Section 176(c) of the CAA requires federal actions in nonattainment and maintenance areas to conform to the SIP’s goals of eliminating or reducing the severity and number of violations of the NAAQS and achieving expeditious attainment of the standards. Conformity to the SIP’s goals means that such actions will not: (1) Cause or contribute to violations of a NAAQS, (2) worsen the severity of an existing violation, or (3) delay timely attainment of any NAAQS or any interim milestone. Actions involving Federal Highway Administration (FHWA) or Federal Transit Administration (FTA) funding or approval are subject to the EPA’s transportation conformity rule, codified at 40 CFR part 93, subpart A. Under this rule, metropolitan planning organizations (MPO) in nonattainment and maintenance areas coordinate with state and local air quality and transportation agencies, the EPA, the FHWA, and the FTA to demonstrate that an area’s regional transportation plans and transportation improvement programs conform to the applicable SIP. This demonstration is typically done by showing that estimated emissions from existing and planned highway and transit systems are less than or equal to the motor vehicle emissions budgets (MVEBs or “budgets”) contained in all control strategy SIPs. Budgets are generally established for specific years and specific pollutants or precursors. These budgets may include a safety margin representing the difference between projected emissions and the total amount of emissions estimated to satisfy any requirements for attainment or RFP.

The process for determining adequacy of a MVEB consists of three basic steps: (1) Providing public notification of a SIP submission; (2) providing the public the opportunity to comment on the MVEB during a public comment period; and, (3) making a finding of adequacy or inadequacy.

2. **Summary of the State’s Submission**

The 2016 WMD Attainment Plan includes budgets for the 2018, 2021, and 2024 RFP milestone years, and a 2026 attainment year. The budgets for 2018, 2021, and 2024 were derived from the 2012 RFP baseline year and the associated RFP milestone years. These budgets are affected by the South Coast Air Quality Management District’s (South Coast) decision vacating the alternative baseline year provision, and therefore, the EPA has not previously acted on the budgets.

The 2018 SIP Update revised the RFP demonstration consistent with the South Coast Air Quality Management District’s decision (i.e., by using a 2011 RFP baseline year) and identifies new budgets for the WMD for VOC and NOX for each updated RFP milestone year through 2026. The budgets in the 2018 SIP Update replace the budgets contained in the 2016 WMD Attainment Plan. Like the budgets in the 2016 WMD Attainment Plan, the budgets in the 2018 SIP Update were calculated using EMFAC2014, the version of CARB’s EMFAC model approved by the EPA for estimating emissions from on-road vehicles operating in California at the time the 2016 WMD Attainment Plan and 2018 SIP Update were developed. The budgets in the 2018 SIP Update reflect updated VMT estimates from SCAG’s 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy, Amendment 2, adopted in July 2017, and align with the emissions inventory, RFP, and attainment demonstrations in the 2016 WMD Attainment Plan. Additionally, the budgets in the 2018 SIP Update are more precise because they are rounded up to the nearest tenth of a tpd, instead of the nearest whole number.

The conformity budgets for NOX and VOC in the 2018 SIP Update for the WMD are provided in Table 4 below.

### Table 4—West Mojave Desert Motor Vehicle Emissions Budgets in the 2018 SIP Update

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2023</th>
<th>2026</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VOC</td>
<td>NOX</td>
<td>VOC</td>
</tr>
<tr>
<td>On-Road Inventory</td>
<td>7.87</td>
<td>17.57</td>
<td>6.73</td>
</tr>
<tr>
<td>Safety Margin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>7.87</td>
<td>17.57</td>
<td>6.73</td>
</tr>
</tbody>
</table>

[pdp NOX] Further emissions reductions are projected to occur in upwind areas in the year following the attainment year (see, e.g., 2016 AQMP, Chapter 3), and we anticipate that these reductions will drive additional reductions in ozone concentrations in the WMD in this period, consistent with the strong influence of upwind emissions on nonattainment in the WMD.

133 40 CFR 93.118(e)(4)(iii), (iv) and (v). For more information on the transportation conformity requirements and applicable policies on MVEBs, please visit our transportation conformity website at: [http://www.epa.gov/otaq/stateresources/transconf/index.htm](http://www.epa.gov/otaq/stateresources/transconf/index.htm).

134 40 CFR 93.118.

135 For instance, the 2016 WMD Attainment Plan estimates that 2026 on-road vehicle emissions (summer planning inventory) would be 7 tpd for VOC and 11 tpd for NOX. See Appendix A, A–23 through A–26. The corresponding budgets from the 2018 SIP Update are 6.2 tpd for VOC and 10.2 tpd for NOX. See Table VI–3 and surrounding discussion in Section V of the TSD for this action for additional detail.
TABLE 4—WEST MOJAVE DESERT MOTOR VEHICLE EMISSIONS BUDGETS IN THE 2018 SIP UPDATE—Continued

[tpd, average summer weekend]a

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2023</th>
<th>2026</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>NOx</td>
<td>VOC</td>
<td>NOx</td>
</tr>
<tr>
<td>MVEBs b</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.9</td>
<td>17.6</td>
<td>6.8</td>
<td>11.0</td>
</tr>
</tbody>
</table>

a Source: Table VI–3 from the 2018 SIP Update.
b Rounded up to the next tenth of a ton.

The submittal letters for both the 2016 WMD Attainment Plan and the 2018 SIP Update include a request from CARB that the EPA limit the duration of our approval of the budgets to last only until the effective date of future EPA adequacy findings for replacement budgets.136

3. The EPA’s Review of the State’s Submission

As part of our review of the approvalability of the budgets in the 2018 SIP Update, we have evaluated the budgets using our adequacy criteria in 40 CFR 93.118(e)(4) and (5). We will complete the adequacy review concurrently with our final action on the 2016 WMD Attainment Plan. The EPA is not required under its transportation conformity rule to find budgets adequate prior to proposing approval of them.137 Today, the EPA is announcing that the adequacy process for these budgets begins and the public has 30 days to comment on their adequacy, per the transportation conformity regulation at 40 CFR 93.118(f)(2)(i) and (ii).

As documented in Table 5 of section V of the EPA’s TSD for this proposal, we preliminarily conclude that the budgets in the 2018 SIP Update for the West Mojave Desert meet each adequacy criterion. While adequacy and approval are two separate actions, reviewing the budgets in terms of the adequacy criteria informs the EPA’s decision to propose to approve the budgets. We have completed our detailed review of the 2016 WMD Attainment Plan and the 2018 SIP Update, and we are proposing herein to approve the attainment and RFP demonstrations. We have also reviewed the budgets in the 2018 SIP Update and found that they are consistent with the attainment and RFP demonstrations for which we are proposing approval, are based on control measures that have already been adopted and implemented, and meet all other applicable statutory and regulatory requirements, including the adequacy criteria in 40 CFR 93.118(e)(4) and (5). Therefore, we are proposing to approve the 2023 and 2026 budgets in the 2018 SIP Update. At the point when we finalize our adequacy process or approve the budgets for the 2008 ozone NAAQS in the 2018 SIP Update as proposed (whichever occurs first; note that they could also occur concurrently per 40 CFR 93.118(f)(2)(iii)), then these budgets will replace the budgets that we previously found adequate for use in transportation conformity determinations.138

Under our transportation conformity rule, as a general matter, once budgets are approved, they cannot be superseded by revised budgets submitted for the same CAA purpose and the same year(s) addressed by the previously approved SIP submittal until the EPA approves the revised budgets as a SIP revision. In other words, as a general matter, such approved budgets cannot be superseded by revised budgets found adequate, but rather only through approval of the revised budgets, unless the EPA specifies otherwise in its approval of a SIP by limiting the duration of the approval to last only until subsequently submitted budgets are found adequate.139

In this instance, CARB’s submittal letters transmitting the 2016 WMD Attainment Plan and 2018 SIP Update requested that we limit the duration of our approval to the effective date of an EPA adequacy finding for subsequently submitted budgets, and on April 9, 2021, CARB provided further explanation for its request. Generally, we will consider a state’s request to limit an approval of a budget only if the request includes the following elements:140

- An acknowledgement and explanation as to why the budgets under consideration have become outdated or deficient;
- A commitment to update the budgets as part of a comprehensive SIP update; and
- A request that the EPA limit the duration of its approval to the time when new budgets have been found to be adequate for transportation conformity purposes.

CARB’s request includes an explanation for why the budgets have become, or will become, outdated or deficient. In short, CARB requested that we limit the duration of the approval of the budgets in light of the EPA’s recent approval of EMFAC2017, an updated version of the EMFAC2014 model used for the budgets in the 2018 SIP Update. EMFAC2017 updates vehicle mix and emissions data of the previously approved version of the model, EMFAC2014.

In light of the approval of EMFAC2017, CARB requests that the budgets from the 2016 WMD Attainment Plan, for which we are proposing approval in this action, will be revised using EMFAC2017 in 2022. CARB’s request also states, “without the ability to replace the applicable transportation conformity emissions budgets with submitted budgets found adequate using the budget adequacy process, the benefits of using the updated data may not be realized for a year or more after the SIPs are submitted, due to the SIP approval process.”

We note that CARB has not committed to update the budgets as part of a comprehensive SIP update, but as a practical matter, CARB must submit a SIP revision that includes updated demonstrations as well as the updated budgets to meet the adequacy criteria in...
WMD is subject to enhanced I/M.142

Because parts of the MDAQMD with a 1980 population of 200,000 or area within the nonattainment area. As vehicle I/M program in each urbanized above to implement an enhanced motor states with ozone nonattainment areas 1. Enhanced Vehicle Inspection and Maintenance Programs

Section 182(c)(3) of the CAA requires states with ozone nonattainment areas classified under subpart 2 as Serious or above to implement an enhanced motor vehicle I/M program in each urbanized area within the nonattainment area. As discussed in Section III.G.3 of this document, Section 182(c)(3) further explains that urbanized areas are “defined by the Bureau of the Census, with a 1980 population of 200,000 or more.” Because parts of the MDAQMD within the WMD were not considered urbanized areas in 1980, only part of the WMD is subject to enhanced I/M.142

Consistent with the 2008 Ozone SRR, no new I/M programs are currently required for nonattainment areas for the 2008 ozone NAAQS.143 The EPA previously approved the California I/M program in the West Mojave Desert as meeting the requirements of the CAA and applicable EPA regulations for enhanced I/M programs.144

142 2008 Ozone SRR, 80 FR 12264, at 12283 (March 6, 2015).
143 See also CAA sections 182(e).
144 75 FR 3023 (July 1, 2010).

2. New Source Review Rules

Section 182(a)(2)(C) of the CAA requires states to develop SIP revisions containing permit programs for each of its ozone nonattainment areas. The SIP revisions are to include requirements for permits in accordance with CAA sections 172(c)(5) and 173 for the construction and operation of each new source for VOC and NOx anywhere in the nonattainment area.145 The 2008 Ozone SRR includes provisions and guidance for nonattainment new source review (NSR) programs.146 We will address the NSR requirements for the 2008 ozone NAAQS in the WMD in a separate action.

3. Clean Fuels Fleet Program

Sections 182(c)(4)(A) and 246 of the CAA require California to submit to the EPA for approval into the SIP measures to implement a Clean Fuels Fleet Program. Section 182(c)(4)(B) of the CAA allows states to opt out of the federal clean-fuel vehicle fleet program by submitting a SIP revision consisting of a program or programs that will result in at least equivalent long-term reductions in ozone precursors and toxic air emissions.

In 1994, CARB submitted a SIP revision to the EPA to opt out of the federal clean-fuel vehicle fleet program and included a demonstration that California’s low-emissions vehicle program achieved emissions reductions at least as large as would be achieved by the federal program. The EPA approved the SIP revision to opt out of the federal program on August 27, 1992.147 There have been no changes to the federal Clean Fuels Fleet Program since the EPA approved the California SIP revision to opt out of the federal program, and thus, no corresponding changes to the SIP are required. Thus, we find that the California SIP revision to opt out of the federal program, as approved in 1999, meets the requirements of CAA sections 182(c)(4)(A) and 246 for the WMD for the 2008 ozone standards.

4. Gasoline Vapor Recovery

Section 182(b)(3) of the CAA requires states to submit a SIP revision by November 15, 1992, that requires owners or operators of gasoline dispensing systems to install and operate gasoline vehicle refueling vapor recovery (“Stage II”) systems in ozone nonattainment areas classified as Moderate and above. California’s ozone nonattainment areas implemented Stage II vapor recovery well before the passage of the CAA Amendments of 1990.148

Section 202(a)(6) of the CAA requires the EPA to promulgate standards requiring motor vehicles to be equipped with onboard refueling vapor recovery (ORVR) systems. The EPA promulgated the first set of ORVR system regulations in 1994 for phased implementation on vehicle manufacturers, and since the end of 2006, essentially all new gasoline-powered light- and medium-duty vehicles are ORVR-equipped.149 Section 202(a)(6) also authorizes the EPA to waive the SIP requirement under CAA section 182(b)(3) for installation of Stage II vapor recovery systems after such time as the EPA determines that ORVR systems are in widespread use throughout the motor vehicle fleet. Effective May 16, 2012, the EPA waived the requirement of CAA section 182(b)(3) for Stage II vapor recovery systems in ozone nonattainment areas regardless of classification.150 Thus, a SIP submittal meeting CAA section 182(b)(3) is not required for the 2008 ozone NAAQS.

While a SIP submittal meeting CAA section 182(b)(3) is not required for the 2008 ozone NAAQS, under California state law (i.e., Health and Safety Code section 4059), CARB is required to adopt procedures and performance standards for controlling gasoline emissions from gasoline marketing operations, including transfer and storage operations. State law also authorizes CARB, in cooperation with local air districts, to certify vapor recovery systems, to identify defective equipment and to develop test methods. CARB has adopted numerous revisions to its vapor recovery program regulations and continues to rely on its vapor recovery program to achieve emissions reductions in ozone nonattainment areas in California.

In the WMD, the installation and operation of CARB-certified vapor recovery equipment is required and enforced through AVAQMD Rule 461, “Gasoline Transfer and Dispensing,” approved into the SIP on October 21, 2008, and MDAQMD Rule 461, “Gasoline Transfer and Dispensing,” approved into the SIP on May 1, 2020.151

5. Enhanced Ambient Air Monitoring

Section 182(c)(1) of the CAA requires that all ozone nonattainment areas

141 Under 40 CFR 93.118(e)(4), the EPA will not find a budget in a submitted SIP to be adequate unless, among other criteria, the budgets, when considered together with all other emissions sources, are consistent with applicable requirements for RFP and attainment. 40 CFR 93.118(e)(4)(iv).
142 As described in section III.G.2 of this document, the State has committed to adopt a contingency measure to implement enhanced I/M throughout the portion of the WMD that is currently subject to basic I/M, in the event that the area fails to meet an RFP milestone or to attain the 2008 NAAQS by the attainment date.
143 2008 Ozone SRR, 80 FR 12264, at 12283 (March 6, 2015).
144 75 FR 3023 (July 1, 2010).
145 See also CAA sections 182(e).
146 60 FR 12264 (March 6, 2015).
147 64 FR 46849 (August 27, 1999).
149 77 FR 28772, at 28774 (May 16, 2012).
150 40 CFR 51.126(b).
151 76 FR 5277 at January 31, 2011) and 85 FR 25293 (May 1, 2020).
classified as Serious or above implement measures to enhance and improve monitoring for ambient concentrations of ozone, NOx, and VOC, and to improve monitoring of emissions of NOx and VOC. The enhanced monitoring network for ozone is referred to as the photochemical assessment monitoring station (PAMS) network. The EPA promulgated final PAMS regulations on February 12, 1993.\textsuperscript{152}

On November 10, 1993, CARB submitted to the EPA a SIP revision addressing the PAMS network for six ozone nonattainment areas in California, including the WMD, to meet the enhanced monitoring requirements of CAA section 182(c)(1). The EPA determined that the PAMS SIP revision met all applicable requirements for enhanced monitoring and the EPA PAMS regulations and approved the PAMS submittal into the California SIP.\textsuperscript{153}

Prior to 2006, the EPA’s ambient air monitoring regulations in 40 CFR part 58, “Ambient Air Quality Surveillance,” set forth specific SIP requirements (see former 40 CFR 52.20). In 2006, the EPA significantly revised and reorganized 40 CFR part 58.\textsuperscript{154} Under revised 40 CFR part 58, SIP revisions are no longer required; rather, compliance with EPA monitoring regulations is established through review of required annual monitoring network plans.\textsuperscript{155} The 2008 Ozone SRK made no changes to these requirements.\textsuperscript{156}

The 2016 WMD Attainment Plan does not specifically address the enhanced ambient air monitoring requirement in CAA section 182(c)(1). However, we note that CARB includes the ambient monitoring network within the WMD in its annual monitoring network plan that is submitted to the EPA, and that we have approved the most recent annual monitoring network plan (“Annual Network Plan Covering Monitoring Operations in 25 California Air Districts, July 2020” or “2018 ANP”), which includes the enhanced ambient air monitoring element for the WMD.\textsuperscript{157}

Based on our review and approval of the 2020 ANP with respect to the WMD and our earlier approval of the PAMS SIP revision, we propose to find that CARB, AVAQMD and MDAQMD meet the enhanced monitoring requirements under CAA section 182(c)(1) for the WMD with respect to the 2008 ozone NAAQS.

6. CAA Section 185 Fee Program

Section 185 of the CAA requires that the SIP for each Severely and Extreme ozone nonattainment area provide that, if the area fails to attain by its applicable attainment date, each major stationary source of VOC and NOx located in the area shall pay a fee to the state as a penalty for such failure for each calendar year beginning after the attainment date, until the area is redesignated as an attainment area for ozone. States are not yet required to submit a SIP revision that meets the requirements of CAA section 185 for the 2008 ozone NAAQS.\textsuperscript{158}

IV. Proposed Action

For the reasons discussed in this notice, under CAA section 110(k)(3), the EPA is proposing to approve as a revision to the California SIP the following portions of the 2016 WMD Attainment Plan for the 2008 ozone NAAQS, submitted by CARB on June 2, 2017, and the 2018 SIP Update, submitted on December 11, 2018:

• Base year emissions inventory element in the 2016 WMD Attainment Plan as meeting the requirements of CAA sections 172(c)(3) and 182(a)(1) and 40 CFR 51.1115;

• Emissions statement element in the 2016 WMD Attainment Plan as meeting the requirements of CAA section 182(a)(3)(B) and 40 CFR 51.1102;

• RACM demonstration element in the 2016 WMD Attainment Plan, as meeting the requirements of CAA section 172(c)(1) and 40 CFR 51.1112(c);

• Attainment demonstration element in the 2016 WMD Attainment Plan as meeting the requirements of CAA section 182(c)(2)(A) and 40 CFR 51.1108;

• RFP demonstration element in the 2018 SIP Update as meeting the requirements of CAA sections 172(c)(2), 182(b)(1), and 182(c)(2)(B), and 40 CFR 51.1110(a)(2)(ii);

• VMT emissions offset demonstration element in the 2016 WMD Attainment Plan as meeting the requirements of CAA section 182(d)(1)(A) and 40 CFR 51.1102; and

• Motor vehicle emissions budgets in the 2018 SIP Update for the 2023 RFP milestone year and the 2026 attainment year (see Table 4 of this notice) because they are consistent with the RFP and attainment demonstrations proposed for approval herein and meet the other criteria in 40 CFR 93.118(e).

We are also proposing to find that the:

• California SIP revision to opt out of the federal Clean Fuels Fleet Program meets the requirements of CAA sections 182(c)(4)(A) and 246 and 40 CFR 51.1102 with respect to the WMD;

• Enhanced monitoring in the WMD meets the requirements of CAA section 182(c)(1) and 40 CFR 51.1102; and

• Enhanced vehicle inspection and maintenance program element in the WMD meets the requirements of CAA section 182(c)(3) and 40 CFR 51.1102.

Lastly, we are proposing, under CAA section 110(k)(4), to conditionally approve the contingency measure element of the 2016 WMD Attainment Plan as meeting the requirements of CAA sections 172(c)(9) and 182(c)(9) for RFP contingency measures. Our proposed approval is based on commitments by the District and CARB to supplement the element through submission, as a SIP revision (within one year of final conditional approval action), a MDAQMD Board resolution detailing the circumstances, timing, and procedure for implementing enhanced vehicle inspection and maintenance for areas within WMD currently subject to basic I/M, if an RFP milestone is not met or the area fails to attain the 2008 ozone NAAQS by the attainment date.

The EPA is soliciting public comments on the issues discussed in this document. We will accept comments from the public on this proposal for the next 30 days and will consider comments before taking final action.

V. Statutory and Executive Order Reviews

Under the Clean Air Act, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve state choices, provided that they meet the criteria of the Clean Air Act. Accordingly, this proposed action merely proposes to approve state plans as meeting federal requirements and does not impose additional
requirements beyond those imposed by state law. For that reason, this proposed action:

- Is not a “significant regulatory action” subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);
- Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
- Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
- Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);
- Does not have federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);
- Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April, 23, 1997);
- Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);
- Is not subject to requirements of Section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the Clean Air Act; and
- Does not provide the EPA with the discretionary authority to address disproportionate human health or environmental effects with practical, appropriate, and legally permissible methods under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, the SIP is not approved by the EPA, as required by section 129(b) of the Clean Air Act (CAA) or section 131(c) of the Clean Air Act Amendments of 1990, for the attainment of the National Ambient Air Quality Standards by each attainment date, because the State failed to complete any regulatory actions needed to attain the applicable National Ambient Air Quality Standards.

SUPPLEMENTARY INFORMATION:

I. Background

A. The 2008 Pb and 2010 SO2 National Ambient Air Quality Standards

Under section 109 of the Clean Air Act (CAA or “Act”), the EPA has established primary and secondary NAAQS for certain pervasive air pollutants (referred to as “criteria pollutants”) and conducts periodic reviews of the NAAQS to determine whether they should be revised or whether new NAAQS should be established. The primary NAAQS represent ambient air quality standards the attainment and maintenance of which the EPA has determined, including a margin of safety, are requisite to protect the public health.
The secondary NAAQS represent ambient air quality standards the attainment and maintenance of which the EPA has determined are requisite to protect the public welfare from any known or anticipated adverse effects associated with the presence of such air pollutant in the ambient air.

1. The 2008 Pb Standard

Under the CAA, the EPA must establish NAAQS for criteria pollutants, including Pb. Pb is generally emitted in the form of particles that are deposited in water, soil, and dust. People may be exposed to Pb by inhaling it or by ingesting Pb-contaminated food, water, soil, or dust. Once in the body, Pb is quickly absorbed into the bloodstream and can result in a broad range of adverse health effects including damage to the central nervous system, cardiovascular function, kidneys, immune system, and red blood cells. Children are particularly vulnerable to Pb exposure, in part because they are more likely to ingest Pb and in part because their still-developing bodies are more sensitive to the effects of Pb. The harmful effects to children’s developing nervous systems (including their brains) arising from Pb exposure may include intelligence quotient (IQ)1 loss, poor academic achievement, long-term learning disabilities, and an increased risk of delinquent behavior.

The EPA first established primary and secondary Pb standards in 1978 at 1.5 micrograms per cubic meter (µg/m³) as a quarterly average.2 Based on new health and scientific data, on October 15, 2008, the EPA revised the federal Pb standards to 0.15 µg/m³ and revised the averaging time for the standards.3 Since the primary and secondary Pb standards are the same, we refer to them hereafter in this document using the singular Pb standard or NAAQS. A violation of the 2008 Pb NAAQS occurs if any arithmetic 3-month mean concentration is greater than 0.15 µg/m³.4

2. The 2010 SO₂ Standard

Under the CAA, the EPA must also establish a NAAQS for SO₂. SO₂ is primarily released to the atmosphere through the burning of fossil fuels by power plants and other industrial facilities. SO₂ is also emitted from industrial processes including metal extraction from ore and heavy equipment that burn fuel with a high sulfur content. Short-term exposure to SO₂ can damage the human respiratory system and increase breathing difficulties. Small children and people with respiratory conditions, such as asthma, are more sensitive to the effects of SO₂. Sulfur oxides at high concentrations can also react with compounds to form small particulates that can penetrate deeply into the lungs and cause health problems. The EPA first established primary SO₂ standards in 1971 at 0.14 parts per million (ppm) over a 24-hour averaging period and 0.3 ppm over an annual averaging period.5 In June 2010, the EPA revised the NAAQS for SO₂ to provide increased protection of public health, providing for revocation of the 1971 primary and 24-hour SO₂ standards for most areas of the country following area designations under the new NAAQS.6 The 2010 NAAQS is 75 parts per billion (ppb) (equivalent to 0.075 ppm) over a 1-hour averaging period.7 A violation of the 2010 1-hour SO₂ NAAQS occurs when the annual 99th percentile of ambient daily maximum 1-hour average SO₂ concentrations, averaged over a 3-year period, exceeds 75 ppb.8

B. Designations, Classifications, and Attainment Dates for the 2008 Pb and 2010 SO₂ National Ambient Air Quality Standards

Following promulgation of any new or revised NAAQS, the EPA is required by CAA section 107(d) to designate areas throughout the nation as attaining or not attaining the NAAQS.

1. Hayden 2008 Pb Nonattainment Area

The initial designations for the 2008 Pb NAAQS were established in two rounds and were completed on November 22, 2010, and November 22, 2011.9 The EPA initially designated the Hayden, Arizona area as unclassifiable due to insufficient monitoring data.10 In June 2013, the EPA determined that quality assured, certified monitoring data collected in 2012 at the Arizona Department of Environmental Quality (ADEQ or “State”) Globe Highway monitor showed that the area was violating the Pb NAAQS. Accordingly, on May 2, 2014, the EPA proposed to redesignate the Hayden area to nonattainment for the 2008 Pb NAAQS, and on September 3, 2014, finalized the nonattainment designation, effective October 3, 2014.11 Under CAA sections 172(a)(2) and 192(a), the attainment date for a Pb nonattainment area is the date by which attainment can be achieved as expeditiously as practicable, but no later than five years after the area is designated nonattainment. Therefore, the maximum attainment date for the Hayden Pb NAAQ is October 3, 2019.12 The Hayden nonattainment area for the 2008 Pb NAAQS includes parts of Gila and Pinal counties.13

2. Hayden and Miami 2010 SO₂ Nonattainment Areas

On August 5, 2013, the EPA finalized its first round of designations for the 2010 primary SO₂ NAAQS.14 In the 2013 action, the EPA designated 29 areas in 16 states as nonattainment for the 2010 SO₂ NAAQS, including the Hayden and Miami areas in Arizona. The Hayden SO₂ NAAQS includes parts of Gila and Pinal counties and excludes the parts of Indian country located in the area. The Miami SO₂ NAAQS includes parts of Gila County and excludes parts of Indian country within the area.15 The EPA’s initial round of designations for the 2010 SO₂ NAAQS including the Hayden and Miami SO₂ NAAQS became effective on October 4, 2013. Pursuant to CAA sections 172(a)(2) and 192(a), the maximum attainment date for the Hayden and Miami SO₂ NAAQS is October 4, 2018, five years after the effective date of the final action designating each area as nonattainment for the 2010 SO₂ NAAQS.

II. Proposed Determination and Consequences

A. Applicable Statutory and Regulatory Provisions

Section 179(c)(1) of the CAA requires the EPA to determine whether a nonattainment area attained an applicable standard by the applicable

11 79 FR 52205 (September 3, 2014).
12 ADEQ’s “SIP Revision: Hayden Lead Nonattainment Area” (adopted on March 31, 2017), 18, describes “October 2019” as the attainment date for the area. Accordingly, in approving this SIP revision, 83 FR 56734 (November 14, 2018), the EPA established October 3, 2019 as the applicable attainment date for this area.
13 For an exact description of the Hayden Pb NAAQ, refer to 40 CFR 81.303.
14 78 FR 47191 (August 5, 2013).
15 For exact descriptions of the Hayden and Miami SO₂ NAAQS, refer to 40 CFR 81.303.
attainment date based on the area’s air quality as of the attainment date.

A determination of whether an area’s air quality meets applicable standards is generally based upon the most recent three years of complete, quality-assured data gathered at established state and local air monitoring stations (SLAMS) in a nonattainment area and entered into the EPA’s Air Quality System (AQS) database.16 Data from ambient air monitors operated by state and local agencies in compliance with the EPA monitoring requirements must be submitted to AQS.17 Monitoring agencies annually certify that these data are accurate to the best of their knowledge.18 All data are reviewed to determine the area’s air quality status in accordance with 40 CFR part 50, Appendix R (for Pb) and Appendix T (for SO2).

We note that when determining the attainment status of SO2 nonattainment areas, in addition to ambient monitoring data, the EPA may also consider air quality dispersion modeling and/or a demonstration that the control strategy in the SIP has been fully implemented.19 With regard to the use of monitoring data for such determinations, the EPA’s 2014 SO2 Guidance specifically notes that “[i]f the EPA determines that the air quality monitors located in the affected area are located in the area of maximum concentration, the EPA may be able to use the data from these monitors to make the determination of attainment without the use of air quality modeling data.”20 This language might be read to suggest that the EPA must always assess whether the air quality monitors in the affected area are located in the area of maximum concentration prior to using monitoring data to determine an SO2 NAA’s attainment status. However, this language was intended to refer to a situation where the EPA is considering making a determination that the area has attained the NAAQS based on a finding that all of the monitoring sites within the affected area had an attaining design value for the relevant period. As described in section II.C of this notice, in this instance, the monitoring sites in the Hayden and Miami SO2 NAA’s did not have attaining design values for the relevant period. Consequently, even if the monitoring sites are not located in the area of maximum concentration, any monitors that would be located in the area of maximum concentration could not record concentrations lower than those recorded at the existing monitors at the Hayden and Miami sites. Accordingly, since the Hayden and Miami monitors are violating the NAAQS, it is not necessary to consider whether the monitors are located in the area of maximum concentration in order to determine that the Hayden and Miami SO2 NAA’s did not attain the 2010 SO2 NAAQS by the October 4, 2018 attainment date. However, in any future assessment of whether these areas have attained the NAAQS, the EPA may assess whether the monitors are located in the area of maximum concentration and may also consider modeling and/or control implementation information, as appropriate.

1. Interpretation of the 2008 Pb Standard

Under EPA regulations in 40 CFR 50.16 and in accordance with 40 CFR part 50, Appendix R, the 2008 Pb standard is met when the design value is less than or equal to 0.15 µg/m3 at each eligible monitoring site within the area. The Pb design value at each eligible monitoring site is the maximum 3-month arithmetic mean Pb concentration calculated over three years. The 3-month mean Pb concentrations are rounded to the nearest hundredth µg/m3 for comparison to the NAAQS. Data completeness requirements for a given 3-month period are met if the average of the data capture rate of the three constituent months is greater than or equal to 75 percent.21

2. Interpretation of the 2010 SO2 Standard

Under EPA regulations in 40 CFR 50.17 and in accordance with 40 CFR part 50 Appendix T, the 2010 1-hour annual SO2 standard is met when the design value is less than or equal to 75 ppb. Design values are calculated by computing the three-year average of the annual 99th percentile daily maximum 1-hour average concentrations.22 When calculating 1-hour primary standard design values, the calculated design values are rounded to the nearest whole number or 1 ppb by convention. An SO2 1-hour primary standard design value is valid if it encompasses three consecutive calendar years of complete data. A year is considered complete when all four quarters are complete, and a quarter is complete when at least 75 percent of the sampling days are complete. A sampling day is considered complete if 75 percent of the hourly concentration values are reported; this includes data affected by exceptional events that have been approved for exclusion by the Administrator.23

B. Monitoring Network Considerations

Section 110(a)(2)(B)(i) of the CAA requires states to establish and operate air monitoring networks to compile data on ambient air quality for all criteria pollutants. The EPA’s monitoring requirements are specified by regulation in 40 CFR part 58. These requirements are applicable to state, and where delegated, local air monitoring agencies that operate criteria pollutant monitors. The regulations in 40 CFR part 58 establish specific requirements for operating air quality surveillance networks to measure ambient concentrations of Pb, including requirements for measurement methods, network design, quality assurance procedures, and in the case of large urban areas, the minimum number of monitoring sites designated as SLAMS. In sections 4.4 and 4.5 of Appendix D to 40 CFR part 58, the EPA specifies minimum monitoring requirements for Pb and SO2, respectively, to operate at SLAMS. SLAMS produce data that are eligible for comparison with the NAAQS, and therefore, the monitor must be an approved federal reference method (FRM), federal equivalent method (FEM), or approved regional method (ARM) monitor.

The minimum number of required Pb SLAMS is described in section 4.5 of Appendix D to 40 CFR part 58. There must be at least one source-oriented SLAMS site located to measure the maximum Pb concentration in ambient air resulting from each non-airport Pb source that emits 0.50 or more tons per year (tpy) and from each airport that emits 1.0 tpy or more based on either the most recent National Emission Inventory (NEI) or other scientifically justifiable methods and data. According to the 2017 NEI, two non-airport sources in Gila County, Arizona exceeded the 0.50 tpy threshold and therefore required source-oriented Pb monitoring: The Asarco LLC Hayden Smelter and the Freeport-McMoRan Miami Smelter.24

---

16 AQS is the EPA’s repository of ambient air quality data.
17 40 CFR 50.15.
19 Id., 50.
20 See 40 CFR part 50, Appendix R sections (1)c., 4(c), and 5(b).
21 As defined in 40 CFR part 50, Appendix T section 1(c), daily maximum 1-hour values refer to the maximum 1-hour SO2 concentration values measured from midnight to midnight that are used in the NAAQS computations.
22 See 40 CFR part 50, Appendix T sections 1(c), 3(b), 4(c), and 5(a).
23 Arizona facility-level Pb emissions data from the 2017 NEI may be accessed on the EPA NEI website at https://www.epa.gov/air-emissions.
The minimum number of required SO\textsubscript{2} SLAMS is described in sections 4.4.2 and 4.4.3 of Appendix D to 40 CFR part 58. According to section 4.4.2, the minimum number of required SO\textsubscript{2} monitoring sites is determined by the population weighted emissions index for each state’s core based statistical area. Section 4.4.3 describes additional monitors that may be required by an EPA regional administrator.

Under 40 CFR 58.10, states are required to submit annual network plans (ANP) for ambient air monitoring networks for approval by the EPA. Within the Hayden Pb, Hayden SO\textsubscript{2}, and Miami SO\textsubscript{2} NAA, ADEQ is responsible for assuring that each area meets air quality monitoring requirements. ADEQ submits annual monitoring network plans to the EPA that describe the various monitoring sites operated by ADEQ. Each ANP discusses the status of the air monitoring network as required under 40 CFR 58.10 and addresses the operation and maintenance of the air monitoring network in the previous year. The EPA regularly reviews these ANPs for compliance with the applicable reporting requirements in 40 CFR part 58.

The EPA also conducts regular “technical systems audits” (TSAs) during which we review and inspect ambient air monitoring programs to assess compliance with applicable regulations concerning the collection, analysis, validation, and reporting of ambient air quality data. In our 2018 TSA of ADEQ, we concluded that ADEQ’s ambient air monitoring network meets or exceeds the requirements for the minimum number of SLAMS for all criteria pollutants, including for Pb in the Hayden NAA and for SO\textsubscript{2} in the Hayden and Miami NAA.

1. Hayden Pb Monitoring Network

ADEQ operated two Pb SLAMS during the November 2015–December 2018 data period within the Hayden Pb NAA: Globe Highway (AQS ID 04–007–1002) and Hillcrest (AQS ID 04–025–8104). The Globe Highway site is located along State Route 77 in Winkelman. The Hillcrest site, which began monitoring on January 1, 2016, is located at 123 S. Hillcrest Avenue in Hayden. The primary and secondary monitors at each Pb monitoring site are FEM monitors.

Based on our review of ADEQ’s ANPs for the years 2016–2019 and the 2018 TSA of ADEQ’s monitoring program, we propose to find that the monitoring network in the Hayden Pb NAA is adequate for the purpose of collecting ambient Pb concentration data for use in determining whether the Hayden Pb NAA attained the 2008 Pb NAAQS by the October 3, 2019 attainment date.

2. Hayden SO\textsubscript{2} and Miami SO\textsubscript{2} Monitoring Networks

During the 2015–2017 data period, ADEQ operated one SO\textsubscript{2} SLAMS in the Hayden SO\textsubscript{2} NAA: Hayden Old Jail (AQS ID 04–007–1001); and three SO\textsubscript{2} SLAMS in the Miami SO\textsubscript{2} NAA: Miami Ridgeline (AQS ID 04–007–1003); Miami Jones Ranch (AQS ID 04–007–1004); and Miami Townsite (AQS ID 04–007–1005). The Hayden Old Jail site is located on Canyon Drive and Keneecott Avenue in Hayden. The three SO\textsubscript{2} SLAMS in the Miami SO\textsubscript{2} NAA are located in Miami. The Miami Ridgeline site is located on 4030 Linden Street; the Miami Jones Ranch site is located on Cherry Flats Road; and the Miami Townsite site is located on Sullivan Street and Davis Canyon Road. The primary monitors at each of these sites are FEM monitors.

Based on our review of ADEQ’s ANPs for the years 2016–2018 and the 2018 TSA of ADEQ’s monitoring program, we propose to find that the monitoring networks in the Hayden SO\textsubscript{2} and Miami SO\textsubscript{2} NAA are adequate for the purpose of collecting ambient SO\textsubscript{2} concentration data for use in determining whether each nonattainment area attained the 2010 SO\textsubscript{2} NAAQS by the October 4, 2018 attainment date.

C. Data Considerations and Proposed Determination

Under 40 CFR 58.15, monitoring agencies must certify, on an annual basis, data collected at all SLAMS and at all FEM, FEM, and ARM special purpose monitor stations that meet EPA quality assurance requirements. In doing so, monitoring agencies must certify that the previous year of ambient concentration and quality assurance data are completely submitted to AQS and that the ambient concentration data are accurate to the best of their knowledge. ADEQ annually certifies that the data it submits to AQS are quality assured, including data collected by ADEQ at monitoring sites in the Hayden Pb NAA, Hayden SO\textsubscript{2} NAA, and Miami SO\textsubscript{2} NAA.

1. Pb Data Considerations

As noted in Section II.A of this notice, CAA section 179(c)(1) requires the EPA to determine whether a nonattainment area attained an applicable standard by the applicable attainment date, based on the area’s air quality “as of the attainment date.” For the Hayden Pb NAA, for reasons discussed in Section I.B.1 of this notice, the applicable attainment date is October 3, 2019, with respect to the 2008 Pb NAAQS. In accordance with Appendix R to 40 CFR part 50, compliance with the Pb NAAQS is determined based on data from 36 consecutive valid 3-month periods (i.e., 38 months, or a 3-year calendar period and the preceding November and December). Considering the applicable attainment date of October 3, 2019, for the 2008 Pb NAAQS, we must review the data collected in the Hayden Pb NAA from November 1, 2015–December 31, 2018. The Pb data collected in the Hayden Pb NAA from November 1, 2015–December 31, 2018 have been certified by ADEQ.

We have also evaluated the completeness of these data in accordance with the requirements of 40 CFR part 50 Appendix R. As detailed in 40 CFR part 50 Appendix R section 4(c)(i), a 3-month mean Pb value is determined to be valid (i.e., meets data completeness requirements) if the average of the data capture rate of the three constituent monthly means is greater than or equal to 75 percent. The data collected by ADEQ at the Globe Highway monitoring site meet this
The 2018 annual design value site (i.e., the site with the highest design value based on November 2015–December 2018 data) is the Hillcrest site with a Pb design value of 0.31 μg/m³. Because the Hillcrest monitoring site began operation on January 1, 2016, three full months of monitoring data are not available for the 3-month periods from November 2015–January 2016 and December 2015–February 2016. The data collected by ADEQ at the Hillcrest monitoring site meet the Pb completeness criterion for each of the 34 available 3-month periods from January 2016–December 2018.35

2. Pb Data

The Pb design values at both SLAMS within the Hayden Pb NAA for the relevant 36 consecutive 3-month periods beginning November 2015 through December 2018 are presented in Table 1 of this notice. Table 1 demonstrates that the Pb design values for the November 2015–December 2018 data period are greater than 0.15 μg/m³ at the Globe Highway and Hillcrest monitoring sites.

**Table 1—2016–2018 Pb Design Values for the Hayden Pb Nonattainment Area**

<table>
<thead>
<tr>
<th>Site (AQS ID)</th>
<th>Highest 3-month rolling average</th>
<th>Pb design value (μg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Globe Highway (04–007–1002)</td>
<td>0.14</td>
<td>0.21</td>
</tr>
<tr>
<td>Hillcrest (04–007–1003)</td>
<td>*0.31</td>
<td>0.28</td>
</tr>
</tbody>
</table>

Notes:

* Three full months of data are not available for the first two 3-month periods (i.e., November 2015–January 2016 and December 2015–February 2016) at the Hillcrest Monitoring site. However, based on the “above NAAQS level” test described in 40 CFR part 58, Appendix R, Section 4(c)(ii)(A), the February 2016 3-month rolling average of 0.31 μg/m³ is considered valid.


The 2018 annual design value site (i.e., the site with the highest design value based on November 2015–December 2018 data) is the Hillcrest site with a Pb design value of 0.31 μg/m³. Because the Hillcrest monitoring site began operation on January 1, 2016, three full months of monitoring data are not available for the 3-month periods from November 2015–January 2016 and December 2015–February 2016. The EPA applied the “above NAAQS level” test described in 40 CFR 50 Appendix R, Section 4(c)(ii)(A) to determine if the 3-month rolling average ending February 2016 could be considered valid. The 3-month period passed the diagnostic test described therein. Therefore, the February 2016 3-month rolling average of 0.31 μg/m³ is considered valid.

For the area to attain the 2008 Pb NAAQS by October 3, 2019 Pb standard by the October 3, 2019 attainment date.

3. SO₂ Data Considerations

For the Miami and Hayden SO₂ NAAs, for reasons discussed in section I.B.2 of this notice, the applicable attainment date is October 4, 2018. In accordance with Appendix T to 40 CFR part 50, determinations of SO₂ NAAQS compliance are based on three consecutive calendar years of data. To determine the air quality as of the attainment date in each nonattainment area, we must review the data collected during the three calendar years immediately preceding the attainment date for the Hayden and Miami SO₂ NAAs, or January 1, 2015–December 31, 2017.

The SO₂ data for the Hayden and Miami SO₂ NAAs from January 1, 2015–December 31, 2017, have been certified by ADEQ. We have also evaluated the completeness of these data in accordance with the requirements of 40 CFR part 50, Appendix T. The data collected by ADEQ meet the quarterly completeness criterion for all 12 quarters in the three calendar years preceding the attainment date at the Miami SO₂ Townsite and Miami Ridgeline monitors throughout 2016 and 2017.

4. SO₂ Data

The 1-hour SO₂ design values at each monitoring site within the Hayden and Miami SO₂ NAAs for the 2015–2017 period are presented in Table 2. Table 2 demonstrates that the 1-hour SO₂ design values for the 2015–2017 period are greater than 75 ppb at each eligible monitoring site.

35 See footnote a to Table 1 of this document for a discussion of how we considered the data in these periods after initiation of the Hillcrest monitoring site.

36 See the March 22, 2021 AQS Raw Data Report for SO₂ monitors in the Hayden and Miami SO₂ NAAs showing hourly data from the Miami
The data in Table 2 demonstrate that one site in the Hayden SO\textsubscript{2} NAA and two sites in the Miami SO\textsubscript{2} NAA failed to attain the 2010 1-hour SO\textsubscript{2} NAAQS by the applicable attainment date of October 4, 2018, while a third site in the Miami NAA, the Ridgeline monitor, did not have a valid design value for this period. Though the annual 99th percentile daily maximum 1-hour average at the Miami Townsite monitor did not meet applicable completeness criteria for all three years in the 2015–2017 data period, the 3-year design value for Miami Townsite was deemed valid due to meeting the criteria in 40 CFR part 50 Appendix T, section 3(c)(i), which requires that “at least 75 percent of the days in each quarter of each of three consecutive years have at least one reported hourly value, and the design value calculated according to the procedures specified in section 5 is above the level of the primary 1-hour standard.” The 3-year design value for Miami Ridgeline is not considered valid because the site did not meet the conditions in 40 CFR part 50 Appendix T, section 3(c)(i), (ii), or (iii) to allow for incomplete design values to be considered valid.

The annual design value site in each NAA is the site with the highest design value based on 2015–2017 data. In the Hayden SO\textsubscript{2} NAA, the annual design value site is the Hayden Old Jail site with a 1-hour SO\textsubscript{2} design value of 295 ppb. In the Miami SO\textsubscript{2} NAA, the annual design value site is the Miami Jones Ranch site with a 1-hour SO\textsubscript{2} design value of 221 ppb.

For an area to attain the 2010 SO\textsubscript{2} NAAQS by the October 4, 2018 attainment date, the design value based upon monitored air quality data from 2015–2017 at each eligible monitoring site must be equal to or less than 75 ppb for the 1-hour standard. Table 2 shows that the design values at each monitoring site in the Hayden and Miami SO\textsubscript{2} NAAs exceed 75 ppb.

Therefore, based on quality-assured and certified data for the 2015–2017 data period, we are proposing to determine that both the Hayden SO\textsubscript{2} NAA and Miami SO\textsubscript{2} NAA failed to attain the 2010 1-hour SO\textsubscript{2} standard by the October 4, 2018 attainment date.

### Table 2—2015–2017 1-Hour Design Values for the Hayden and Miami SO\textsubscript{2} Nonattainment Areas

<table>
<thead>
<tr>
<th>Site (AQS ID)</th>
<th>Annual 99th percentile daily maximum 1-hour average</th>
<th>1-hour design value (ppb)</th>
<th>Design value valid?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hayden Old Jail (04–007–1001)</td>
<td>246</td>
<td>280</td>
<td>295</td>
</tr>
<tr>
<td>Miami Ridgeline (04–007–0009)</td>
<td>171</td>
<td>120</td>
<td>139</td>
</tr>
<tr>
<td>Miami Townsite (04–007–0012)</td>
<td>231</td>
<td>110</td>
<td>135</td>
</tr>
<tr>
<td>Miami Jones Ranch (04–007–0011)</td>
<td>242</td>
<td>150</td>
<td>270</td>
</tr>
</tbody>
</table>

Notes:

- The Miami Ridgeline monitor failed to meet completeness criteria for the 2nd quarter of 2017 (April 2017–June 2017) and for the 4th quarter of 2017 (October 2017–December 2017).
- The Miami Townsite monitor had only three quarters of complete data in 2016 because a portion of the data collected in the 1st quarter of 2016 was invalidated for not meeting quality assurance requirements.


The the information concerning such potential additional control measures would be collected by ADEQ as part of its development of SIP revisions to address the requirements that would be triggered by a final finding of failure to attain for these areas.

The state is required to submit the SIP revision within one year after the EPA publishes a final action in the *Federal Register* determining that the nonattainment area failed to attain the applicable Pb or SO\textsubscript{2} standard. We note that on November 10, 2020, the EPA published an action partially disapproving the 2010 SO\textsubscript{2} attainment plan for the Hayden nonattainment area. Although a final finding of failure to attain will not eliminate the state’s obligation to address the disapproved elements of its prior plan submittal, the EPA anticipates that Arizona’s submission of a new, approvable attainment plan in response to this finding would also satisfy these obligations.

In addition to triggering requirements for a new SIP submittal, a final determination that a nonattainment area failed to attain the NAAQS by the attainment date would trigger the implementation of contingency measures adopted under 172(c)(9).

Under CAA sections 179(d)(3) and 172(a)(2), the new attainment date for each nonattainment area is the date by which attainment can be achieved as expeditiously as practicable, but no later than five years after the EPA publishes a final action in the *Federal Register* determining that the nonattainment area failed to attain the applicable Pb or SO\textsubscript{2} standard.\(^{38}\)

\(^{37}\)85 FR 71547.

\(^{38}\)Pursuant to CAA sections 172(a)(2)(D) and 192(a), the attainment date extension provision under section 172(a)(2)(A) does not apply to the Pb or SO\textsubscript{2} NAAQS.
III. Proposed Action and Request for Public Comment

Under CAA section 179(c)(1), the EPA proposes to determine that the Hayden Pb NAA failed to attain the 2008 Pb standard by the applicable attainment date of October 3, 2019. Under CAA section 179(c)(1), the EPA also proposes to determine that the Hayden SO₂ NAA and the Miami SO₂ NAA failed to attain the 2010 1-hour SO₂ standard by the applicable attainment date of October 4, 2018. If finalized as proposed, the State of Arizona would be required under CAA section 179(d) to submit revisions to the SIP for the Hayden Pb NAA, Hayden SO₂ NAA, and Miami SO₂ NAA. The required SIP revision for each area must, among other elements, demonstrate the attainment of the standards within the time period prescribed by CAA section 179(d). If finalized as proposed, the SIP revisions required under CAA section 179(d) would be due for submittal to the EPA no later than one year after the publication date of the final action.

The EPA is soliciting public comments on the issues discussed in this notice. We will accept comments from the public on this proposal for the next 30 days. We will consider these comments before taking final action.

IV. Statutory and Executive Order Reviews

Additional information about these statutes and Executive Orders can be found at http://www2.epa.gov/laws-regulations/laws-and-executive-orders.

A. Executive Order 12866; Regulatory Planning and Review, and Executive Order 13563: Improving Regulation and Regulatory Review

This action is not a significant regulatory action and therefore was not submitted to the Office of Management and Budget (OMB) for review.

B. Paperwork Reduction Act (PRA)

This action does not impose an information collection burden under the provisions of the PRA because it does not contain any information collection activities.

C. Regulatory Flexibility Act (RFA)

I certify that this action will not have a significant economic impact on a substantial number of small entities under the RFA. This action will not impose any requirements on small entities. This proposed action, if finalized, would require the state to adopt and submit SIP revisions to satisfy CAA requirements and would not itself directly regulate any small entities.

D. Unfunded Mandates Reform Act (UMRA)

This action does not contain any unfunded mandate of $100 million or more, as described in UMRA (2 U.S.C. 1531–1538) and does not significantly or uniquely affect small governments. This action itself imposes no enforceable duty on any state, local, or tribal governments, or the private sector. This action proposes to determine that the Hayden Pb NAA and the Hayden and Miami SO₂ NAAs failed to attain the NAAQS by the applicable attainment dates. If finalized, this determination would trigger existing statutory timeframes for the State to submit SIP revisions. Such a determination in and of itself does not impose any federal intergovernmental mandate.

E. Executive Order 13132: Federalism

This action does not have federalism implications. It will not have substantial direct effects on the states, on the relationship between the national government and the states, or on the distribution of power and responsibilities among the various levels of government.

F. Executive Order 13175, Consultation and Coordination With Indian Tribal Governments

This action does not have tribal implications as specified in Executive Order 13175. The proposed finding of failure to attain the Pb and SO₂ NAAQS does not apply to tribal areas, and the proposed rule would not impose a burden on Indian reservation lands or other areas where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction within the Hayden Pb, Hayden SO₂ and Miami SO₂ nonattainment areas. Thus, this proposed rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175. Nonetheless, the EPA has notified the San Carlos Apache Tribe of the San Carlos Reservation, which borders the eastern boundary of the Hayden Pb and Hayden SO₂ NAAs, of the proposed action.

G. Executive Order 13045, Protection of Children From Environmental Health Risks and Safety Risks

The EPA interprets Executive Order 13045 as applying only to those regulatory actions that concern environmental health or safety risks that the EPA has reason to believe may disproportionately affect children, per the definition of “covered regulatory action” in section 2–202 of the Executive Order. This proposed action is not subject to Executive Order 13045 because the effect of this proposed action, if finalized, would be to trigger additional planning requirements under the CAA. This proposed action does not establish an environmental standard intended to mitigate health or safety risks.

H. Executive Order 13211, Actions That Significantly Affect Energy Supply, Distribution, or Use

This proposed rule is not subject to Executive Order 13211, because it is not a significant regulatory action under Executive Order 12866.

I. National Technology Transfer and Advancement Act (NTTAA)

This rulemaking does not involve technical standards.

J. Executive Order 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations

The EPA believes that this action does not have disproportionately high and adverse human health or environmental effects on minority populations, low-income populations and/or indigenous peoples, as specified in Executive Order 12898 (59 FR 7629, February 16, 1994). The effect of this proposed action, if finalized, would be to trigger additional planning requirements under the CAA.

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Incorporation by reference, Intergovernmental relations, Lead, Pollution, Sulfur dioxide.


Deborah Jordan,
Acting Regional Administrator, Region IX.

[FR Doc. 2021–09215 Filed 5–7–21; 8:45 am]
BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 52

[2021–09215]

Approval of California Air Plan Revision, Imperial County Air Pollution Control District

AGENCY: Environmental Protection Agency (EPA).

ACTION: Proposed rule.

SUMMARY: The Environmental Protection Agency (EPA) is proposing to approve a revision to the Imperial County Air...
Pollution Control District (ICAPCD or “District”) portion of the California State Implementation Plan (SIP). The revision concerns emissions of volatile organic compounds (VOCs) from gasoline transfer at bulk gasoline terminals storage. We are proposing to approve a local rule to regulate these emission sources under the Clean Air Act (CAA or the Act). We are taking comments on this proposal and plan to follow with a final action.

DATES: Comments must be received on or before June 9, 2021.

ADDRESSES: Submit your comments, identified by Docket ID No. EPA-R09-OAR-2021-0176 at https://www.regulations.gov. For comments submitted at Regulations.gov, follow the online instructions for submitting comments. Once submitted, comments cannot be edited or removed from Regulations.gov. The EPA may publish any comment received to its public docket. Do not submit electronically any information you consider to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Multimedia submissions (audio, video, etc.) must be accompanied by a written comment. The written comment is considered the official comment and should include discussion of all points you wish to make. The EPA will generally not consider comments or comment contents located outside of the primary submission (i.e., on the web, cloud, or other file sharing system). For additional submission methods, please contact the person identified in the FOR FURTHER INFORMATION CONTACT section. For the full EPA public comment policy, information about CBI or multimedia submissions, and general guidance on making effective comments, please visit https://www.epa.gov/dockets/commenting-epa-dockets. If you need assistance in a language other than English or if you are a person with disabilities who needs a reasonable accommodation at no cost to you, please contact the person identified in the FOR FURTHER INFORMATION CONTACT section.

FOR FURTHER INFORMATION CONTACT: Donnique Sherman, EPA Region IX, 75 Hawthorne St., San Francisco, CA 94105. By phone: (415) 947–4129 or by email at donnique@epa.gov.

SUPPLEMENTARY INFORMATION: Throughout this document, “we,” “us” and “our” refer to the EPA.

Table of Contents
I. The State’s Submittal
A. What rule did the State submit?
B. Are there other versions of this rule?
C. What is the purpose of the submitted rule revision?
II. The EPA’s Evaluation and Action
A. How is the EPA evaluating the rule?
B. Does the rule meet the evaluation criteria?
C. Public comment and proposed action
III. Incorporation by Reference
IV. Statutory and Executive Order Reviews

I. The State’s Submittal
A. What rule did the State submit?

Table 1 lists the rule addressed by this proposal with the dates that it was revised by the local air agency and submitted by the California Air Resources Board (CARB).

<table>
<thead>
<tr>
<th>Local agency</th>
<th>Rule No.</th>
<th>Rule title</th>
<th>Revised</th>
<th>Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICAPCD ...........</td>
<td>415</td>
<td>Transfer and Storage of Gasoline</td>
<td>11/03/2020</td>
<td>02/19/2021</td>
</tr>
</tbody>
</table>

On March 9, 2021, the EPA determined that the submittal for ICAPCD revised Rule 415 met the completeness criteria in 40 CFR part 51 Appendix V, which must be met before formal EPA review.

B. Are there other versions of this rule?

We approved an earlier version of Rule 415 into the SIP on February 22, 2005 (70 FR 8520). The ICAPCD adopted revisions to the SIP-approved version on November 3, 2020, and CARB submitted them to us on February 19, 2021. If we take final action to approve the November 3, 2020 version of Rule 415, this version will replace the previously approved version of the rule in the SIP.

C. What is the purpose of the submitted rule revision?

Emissions of VOCs contribute to the production of ground-level ozone, smog and particulate matter, which harm human health and the environment. Section 110(a) of the CAA requires states to submit regulations that control VOC emissions. SIP-approved Rule 415 limits VOCs from the transfer and storage of gasoline, including stationary storage containers, terminals and bulk plants, gasoline delivery vessels, and vehicle fuel tanks. The rule was recently revised to lower the VOC emissions limit for gasoline transfers at bulk gasoline terminals. On March 16, 2020 (85 FR 8181), the EPA conditionally approved a portion of the California SIP revision submitted on November 14, 2017, demonstrating that control measures in the Imperial County Air Pollution Control District implemented reasonably available control technologies (RACT) for the 2008 8-hour National Ambient Air Quality Standards (NAAQS). The conditional approval was based on a commitment from the State to submit new or revised rules that would correct deficiencies in Rule 415, Transfer and Storage of Gasoline, to establish RACT-level controls for sources covered by the Control Techniques Guidelines (CTG) source category “Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals” (EPA–450/2–77–026). Revisions to Rule 415 on November 3, 2020, corrected the deficiency. The EPA’s technical support document (TSD) has more information about this rule.

II. The EPA’s Evaluation and Action
A. How is the EPA evaluating the rule?

Rules in the SIP must be enforceable (see CAA section 110(a)(2)), must not interfere with applicable requirements concerning attainment and reasonable further progress or other CAA requirements (see CAA section 110(1)), and must not modify certain SIP control requirements in nonattainment areas without ensuring equivalent or greater emissions reductions (see CAA section 193).

Generally, SIP rules must require RACT for each category of sources covered by a CTG document as well as each major source of VOCs in ozone nonattainment areas classified as Moderate or above (see CAA section 182(b)(2)). The ICAPCD regulates an ozone nonattainment area classified as Moderate for the 2008 8-hr ozone NAAQS (40 CFR 81 305). Therefore, this rule must implement RACT.

Guidance and policy documents that we used to evaluate enforceability, revision/relaxation and rule stringency requirements for the applicable criteria pollutants include the following:


B. Does the rule meet the evaluation criteria?

This rule meets CAA requirements and is consistent with relevant guidance regarding enforceability, RACT, and SIP revisions and fulfills the District’s commitment to revise the rules to lower the emissions limit for gasoline transfers at bulk terminals in order to meet current RACT. The TSD has more information on our evaluation.

C. Public Comment and Proposed Action

As authorized in section 110(k)(3) of the Act, the EPA proposes to fully approve the submitted rule because it fulfills all relevant requirements. In addition, we propose to convert the partial conditional approval of the District’s 2008 RACT SIP, as found in 40 CFR 52.248 (I), to a full approval. We will accept comments from the public on this proposal until June 9, 2021. If we take final action to approve the submitted rule, our final action will incorporate this rule into the federally enforceable SIP.

III. Incorporation by Reference

In this rule, the EPA is proposing to include in a final EPA rule regulatory text that includes incorporation by reference. In accordance with requirements of 1 CFR 51.5, the EPA is proposing to incorporate by reference the ICAPCD rule described in Table 1 of this preamble. The EPA has made, and will continue to make, these materials available through https://www.regulations.gov and at the EPA Region IX Office (please contact the person identified in the FOR FURTHER INFORMATION CONTACT section of this preamble for more information).

IV. Statutory and Executive Order Reviews

Under the Clean Air Act, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.62(a). Thus, in reviewing SIP submissions, the EPA’s role is to approve state choices, provided that they meet the criteria of the Clean Air Act. Accordingly, this proposed action merely proposes to approve state law as meeting federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this proposed action:

• Is not a “significant regulatory action” subject to review by the Office of Management and Budget under Executive Order 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);

• Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);

• Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);

• Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);

• Does not have federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);

• Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);

• Is not a significant regulatory action subject to Executive Order 13211 (66 FR 20355, May 22, 2001);

• Is not subject to requirements of Section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the Clean Air Act; and

• Does not provide the EPA with the discretionary authority to address disproportionate human health or environmental effects with practical, appropriate, and legally permissible methods under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, the SIP is not approved to apply on any Indian reservation land or in any other area where the EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Incorporation by reference Intergovernmental relations, Ozone, Reporting and recordkeeping requirements, Volatile organic compounds.

Authority: 42 U.S.C. 7401 et seq.


Deborah Jordan,
Acting Regional Administrator, Region IX.

[FR Doc. 2021–09635 Filed 5–7–21; 8:45 am]

BILLING CODE 6560–50–P

FEDERAL COMMUNICATIONS COMMISSION

47 CFR Part 73

[MB Docket No. 21–185; RM–11906; DA 21–475; FR ID 24742]

Television Broadcasting Services

Butte, Montana

AGENCY: Federal Communications Commission.

ACTION: Proposed rule.

SUMMARY: The Commission has before it a petition for rulemaking filed by Sinclair Media Licensee, LLC (Petitioner), the licensee of KTVM–TV (NBC), channel 6, Butte, Montana. The Petitioner requests the substitution of channel 20 for channel 6 at Butte, Montana in the DTV Table of Allotments.

DATES: Comments must be filed on or before June 9, 2021 and reply comments on or before June 24, 2021.

ADDRESSES: Federal Communications Commission, Office of the Secretary, 45 L Street NE, Washington, DC 20554. In addition to filing comments with the FCC, interested parties should serve counsel for the Petitioner as follows: Paul A. Cicelski, Esq., Lerman Senter, PLLC, 2001 L Street NW, Washington, DC 20036.

FOR FURTHER INFORMATION CONTACT: Joyce Bernstein, Media Bureau, at (202) 418–1647; or Joyce Bernstein, Media Bureau, at Joyce.Bernstein@fcc.gov.

SUPPLEMENTARY INFORMATION: In support of its channel substitution request, the Petitioner states that the Commission has recognized that VHF channels have
certain propagation characteristics which may cause reception issues for some viewers. Petitioner further states that KTVM–TV has received numerous complaints from viewers unable to receive that Station’s over-the-air signal, despite being able to receive signals from other stations, and that its channel substitution proposal will result in more effective building penetration for indoor antenna reception. In addition, the Petitioner states that while the proposed channel 20 facility’s noise limited contour does not completely encompass the relevant channel 6 noise limited contour, KTVM–TV is an NBC affiliate and there are two other NBC affiliated stations that serve some of the portions of the loss area. The Petitioner also submitted an analysis, using the Commission’s TVStudy software analysis program, demonstrating that after taking into account service provided by the other NBC stations, all of the population located within KTVM–TV’s original post-transition channel 6 noise limited contour will continue to receive NBC service, except for 66 people. The Bureau used the technical parameters of KTVM–TV’s original post-transition digital channel 6 facility (File Nos. BPCDT–20080314ADF and BLCDT–20090622ADT) in determining any predicted loss which may occur from the proposed channel substitution.

This is a synopsis of the Commission’s Notice of Proposed Rulemaking, MB Docket No. 21–185; RM–11906; DA 21–475, adopted April 26, 2021, and released April 26, 2021. The full text of this document is available for download at https://www.fcc.gov/edocs. To request materials in accessible formats (braille, large print, computer diskettes, or audio recordings), please send an email to FCC504@fcc.gov or call the Consumer & Government Affairs Bureau at (202) 418–0530 (VOICE), (202) 418–0432 (TTY).


Members of the public should note that all ex parte contacts are prohibited from the time a Notice of Proposed Rulemaking is issued to the time the matter is no longer subject to Commission consideration or court review, see 47 CFR 1.1208. There are, however, exceptions to this prohibition, which can be found in Section 1.1204(a) of the Commission’s rules, 47 CFR 1.1204(a).

See Sections 1.415 and 1.420 of the Commission’s rules for information regarding the proper filing procedures for comments, 47 CFR 1.415 and 1.420.

List of Subjects in 47 CFR Part 73

Television.
DEPARTMENT OF AGRICULTURE
Submission for OMB Review; Comment Request

May 5, 2021.

The Department of Agriculture has submitted the following information collection requirement(s) to OMB for review and clearance under the Paperwork Reduction Act of 1995, Public Law 104–13. Comments are requested regarding whether the collection of information is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility; the accuracy of the agency’s estimate of burden including the validity of the methodology and assumptions used; ways to enhance the quality, utility and clarity of the information to be collected; and ways to minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology.

Comments regarding this information collection received by June 9, 2021 will be considered. Written comments and recommendations for the proposed information collection should be submitted within 30 days of the publication of this notice on the following website www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function.

An agency may not conduct or sponsor a collection of information unless the collection of information displays a currently valid OMB control number.

Food Safety and Inspection Service

Title: Mechanically Tenderized Beef Products.

OMB Control Number: 0583–0160.

Summary of Collection: The Food Safety and Inspection Service (FSIS) has been delegated the authority to exercise the functions of the Secretary as provided in the Federal Meat Inspection Act (FMIA) (21 U.S.C. 601 et seq.). This statute mandate that FSIS protect the public by ensuring that meat products are safe, wholesome, unadulterated, and properly labeled and packaged.

Need and Use of the Information: FSIS requires the use of the descriptive designation “mechanically tenderized” on the labels of raw or partially cooked needle or blade tenderized beef products, including beef products injected with marinade or solution, unless such products are destined to be fully cooked at an official establishment. Beef products that have been needle or blade tenderized are referred to as “mechanically tenderized” products. Consumers use the information added to the labels of raw or partially cooked mechanically tenderized beef products to ensure that they thoroughly cook these products.

Description of Respondents: Business or other-for profit.

Number of Respondents: 555.

Frequency of Responses: Reporting: One time.

Total Burden Hours: 19,719.

Ruth Brown, Departmental Information Collection Clearance Officer.

[FR Doc. 2021–09826 Filed 5–7–21; 8:45 am]
BILLING CODE 3410–0M–P
required and must be revoked. FNCS employees, contractors, State Agencies and partners (Food Banks, etc.) have requested access to FNCS systems via the User Access Request form. FNCS has used the information collected to grant access to the FNCS network and information systems. Information that is collected includes: Name, e-Authentication ID (if applicable), telephone number, email address, contract expiration date, temporary employee expiration date, office address, State/locality codes, system name, form type, type of access, action requested, comments and special instructions.

Description of Respondents: State and Local Government, Private Sector Businesses or other for-profits institutions.

Number of Respondents: 2,700.
Frequency of Responses: Reporting: On occasion.
Total Burden Hours: 870.

Ruth Brown,
Departmental Information Collection Clearance Officer.

FOR FURTHER INFORMATION CONTACT:
Dannette Jones, Information Collections Officer, Directives and Regulations, Strategic Planning, Budget and Accountability, via email at dannette.jones@usda.gov.

DEPARTMENT OF AGRICULTURE
Forest Service

Information Collection: Generic Clearance for the Collection of Qualitative Feedback on Agency Service Delivery

AGENCY: Forest Service, USDA.
ACTION: Notice; request for comment.

SUMMARY: In accordance with the Paperwork Reduction Act of 1995, the Forest Service is seeking comments from all interested individuals and organizations on the renewal of a currently approved information collection, Generic Clearance for the Collection of Qualitative Feedback on Agency Service Delivery.

DATES: Comments must be received in writing on or before July 9, 2021 to be assured of consideration. Comments received after that date will be considered to the extent practicable.

ADDRESSES: Commenters are encouraged to submit comments by email, if possible. You may submit comments by any of the following methods:
- Email: ann.goode@usda.gov and/or dannette.jones@usda.gov.

Comments received in response to this notice may be made available to the public through relevant websites and upon request. For this reason, please do not include in your comments information of a confidential nature, such as sensitive personal information or proprietary information. If you send an email comment, your email address will be automatically captured and included as part of the comment that is placed in the public docket and made available on the internet. Please note that responses to this public comment request containing any routine notice about the confidentiality of the communication will be treated as public comments that may be made available to the public notwithstanding the inclusion of the routine notice.

The public may request an electronic copy of the draft supporting statement and/or any comments received. Requests should be emailed to dannette.jones@usda.gov.

The collections are noncontroversial and do not raise issues of concern to other Federal agencies; any collection is targeted to the solicitation of opinions from respondents who have experience with the program or may have experience with the program in the near future; personally identifiable information (PII) is collected only to the extent necessary and is not retained; information gathered is intended to be used only internally for general service improvement and program management purposes and is not intended for release outside of the agency (if released, the agency must indicate the qualitative nature of the information); information gathered will be used for the purpose of substantially informing influential policy decisions; and information gathered will yield qualitative information. These collections will allow for ongoing, collaborative, and actionable communications between the Agency and its customers and stakeholders. If this information is not collected, vital feedback from customers and stakeholders on the Agency’s services will be unavailable. The Agency will only submit a collection for approval under this generic clearance if it meets the following conditions:

- The collections are voluntary;
- The collections are low-burden for respondents (based on considerations of total burden hours, total number of respondents, or burden-hours per respondent) and are low-cost for both the respondents and the Federal Government;
- Any collection is targeted to the solicitation of opinions from respondents who have experience with the program or may have experience with the program in the near future.

The collections will allow for ongoing, collaborative, and actionable communications between the Agency and its customers and stakeholders. If this information is not collected, vital feedback from customers and stakeholders on the Agency’s services will be unavailable. The Agency will only submit a collection for approval under this generic clearance if it meets the following conditions:

- The collections are voluntary;
- The collections are low-burden for respondents (based on considerations of total burden hours, total number of respondents, or burden-hours per respondent) and are low-cost for both the respondents and the Federal Government;
- Any collection is targeted to the solicitation of opinions from respondents who have experience with the program or may have experience with the program in the near future.
- Personally identifiable information (PII) is collected only to the extent necessary and is not retained;
- Information gathered is intended to be used only internally for general service improvement and program management purposes and is not intended for release outside of the agency (if released, the agency must indicate the qualitative nature of the information);
- Information gathered will not be used for the purpose of substantially informing influential policy decisions; and
- Information gathered will yield qualitative information. The collections will not be designed or expected to yield statistically reliable results or used as though the results are generalizable to the population of study. Feedback collected under this generic clearance provides useful information, but it does not yield data that can be generalized to the overall population.

This type of generic clearance for qualitative information will not be used.
for quantitative information collections that are designed to yield reliably actionable results, such as monitoring trends over time or documenting program performance. Such data uses require more rigorous designs that address: The target population to which generalizations will be made, the sampling frame, the sample design (including stratification and clustering), the precision requirements or power calculations that justify the proposed sample size, the expected response rate, methods for assessing potential nonresponse bias, the protocols for data collection, and any testing procedures that were or will be undertaken prior to fielding the study. Depending on the degree of influence the results are likely to have, such collections may still be eligible for submission for other generic mechanisms that are designed to yield quantitative results.

As a general matter, information collections will not result in any new system of records containing privacy information and will not ask questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private.

**Type of Respondents:** Individuals and Households, Business and Organizations, State, Local or Tribal Government.

**Estimate of Burden per Response:** 1 to 60 Minutes.

**Estimated Annual Number of Respondents:** 3,500,000.

**Estimated Annual Number of Responses per Respondent:** 1.

**Estimated Total Annual Burden on Respondents:** 875,000 hours.

**Comment is Invited:** Comment is invited on: (1) Whether this collection of information is necessary for the stated purposes and the proper performance of the functions of the Agency, including whether the information will have practical or scientific utility; (2) the accuracy of the Agency’s estimate of the burden of the collection of information, including the validity of the methodology and assumptions used; (3) ways to enhance the quality, utility, and clarity of the information to be collected; and (4) ways to minimize the burden of the collection of information on respondents, including the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology.

All comments received in response to this notice, including names and addresses when provided, will be a matter of public record. Comments will be summarized and included in the submission to the Office of Management and Budget for approval.

Amelia Steed,
*Acting Assistant Director, Formulations Branch, Strategic Planning, Budget and Accountability.*

[FR Doc. 2021–09864 Filed 5–7–21; 8:45 am]

**BILLING CODE 3411–15–P**

### DEPARTMENT OF COMMERCE

**Foreign-Trade Zones Board**

**[B–37–2021]**

**Foreign-Trade Zone (FTZ) 20—Norfolk, Virginia; Notification of Proposed Production Activity; STIHL, Incorporated (Handheld Outdoor Power Equipment), Virginia Beach, Virginia**

STIHL, Incorporated (STIHL) submitted a notification of proposed production activity to the FTZ Board for its facility in Virginia Beach, Virginia. The notification conforming to the requirements of the regulations of the FTZ Board (15 CFR 400.22) was received on May 3, 2021.

STIHL already has authority to produce handheld outdoor power equipment and related parts within Subzone 20E. The current request would add two foreign status materials/components to the scope of authority. Pursuant to 15 CFR 400.14(b), additional FTZ authority would be limited to the specific foreign-status materials/components described in the submitted notification (as described below) and subsequently authorized by the FTZ Board.

Production under FTZ procedures could exempt STIHL from customs duty payments on the foreign-status materials/components used in export production. On its domestic sales, for the foreign-status materials/components noted below, STIHL would be able to choose the duty rates during customs entry procedures that apply to blowers, trimmers, sprayers, cutters, cultivators, and chainsaws. The duty rate range from duty-free to 4.7%. STIHL would be able to avoid duty on foreign-status components which become scrap/waste. Customs duties could also possibly be deferred or reduced on foreign-status production equipment.

The materials/components sourced from abroad include flat-rolled and cold-rolled alloy special steel products of a width less than 600 mm, and bars and rods of alloy special steel (duty-free). The request indicates that the components are subject to an antidumping/countervailing duty (AD/CVD) order if imported from certain countries. The FTZ Board’s regulations (15 CFR 400.14(e)) require that merchandise subject to AD/CVD orders or items which would be otherwise subject to suspension of liquidation under AD/CVD procedures if they entered U.S. customs territory, be admitted to the zone in privileged foreign status (19 CFR 146.41). The request also indicates that certain materials/components are subject to duties under Section 232 of the Trade Expansion Act of 1962 (Section 232) or Section 301 of the Trade Act of 1974 (Section 301), depending on the country of origin. The applicable Section 232 and Section 301 decisions require subject merchandise to be admitted to FTZs in privileged foreign status.

Public comment is invited from interested parties. Submissions shall be addressed to the Board’s Executive Secretary and sent to: ftz@trade.gov. The closing period for their receipt is June 21, 2021. A copy of the notification will be available for public inspection in the “Reading Room” section of the Board’s website, which is accessible via www.trade.gov/ftz.

For further information, contact Juanita Chen at juanita.chen@trade.gov or 202–482–1378.


Elizabeth Whiteman,
*Acting Executive Secretary.*

[FR Doc. 2021–09864 Filed 5–7–21; 8:45 am]

**BILLING CODE 3510–05–P**

### DEPARTMENT OF COMMERCE

**Bureau of Industry and Security**

**Emerging Technology Technical Advisory Committee; Notice of Partially Closed Meeting**

The Emerging Technology Technical Advisory Committee (ETTAC) will meet on May 21, 2021, at 10:30 a.m., Eastern Daylight Time. The meetings will be available via teleconference. The Committee advises the Office of the Assistant Secretary for Export Administration on the identification of emerging and foundational technologies with potential dual-use applications as early as possible in their developmental stages both within the United States and abroad.

**Agenda**

**Closed Session: 10:30 a.m.–12:30 p.m.**

1. Discussion of matters determined to be exempt from the provisions relating to public meetings found in 5 U.S.C. app. 2 §§ 10(a)(1) and 10(a)(3)
Open Session: 1:00 p.m.–3:00 p.m.
1. Opening Remarks and Introduction by BIS Senior Management
2. Mastering Foreign Engagement Risk in the Research Enterprise (Kevin Camache, Ph.D., Jeff Stoff, Glenn D. Tiffert, Ph.D.)
3. Q & A with speakers
4. Conclusion/announcements/next meeting

To join the conference, submit inquiries to Ms. Yvette Springer at Yvette.Springer@bis.doc.gov no later than May 17, 2021.

The Department of Commerce will submit the following information collection request to the Office of Management and Budget (OMB) for review and clearance in accordance with the Paperwork Reduction Act of 1995 or on or after the date of publication of this notice. We invite the general public and other Federal agencies to comment on proposed, and continuing information collections, which helps us assess the impact of our information collection requirements and minimize the public’s reporting burden. Public comments were previously requested via the Federal Register on January 12, 2021, during a 60-day comment period. This notice allows for an additional 30 days for public comments.

Title: Application for NATO International Bidding
OMB Control Number: 0694–XXXX.
Form Number(s): BIS–4023P.
Type of Request: Regular submission
New Information Collection.
Number of Respondents: 50.
Average Hours per Response: 1.
Burden Hours: 50.
Needs and Uses: This new proposed information collection replaces previously approved generic collection 0694–0128. All U.S. firms desiring to participate in the NATO International Competitive Bidding (ICB) process under the NATO Security Investment Program (NSIP) must be certified as technically, financially and professionally competent. The U.S. Department of Commerce provides the Declaration of Eligibility that certifies these firms. Any such firm seeking certification is required to submit a completed Form BIS–4023P along with a current annual financial report and a resume of past projects in order to become certified and placed on the Consolidated List of Eligible Bidders.
Affected Public: Business or other for-profit organizations.
Frequency: On Occasion.
Respondent’s Obligation: Voluntary.
Legal Authority: Section 401 (10) of Executive order 12656 (November 18, 1988), 15 U.S.C. Section 1512.

This information collection request may be viewed at www.reginfo.gov. Follow the instructions to view the Department of Commerce collections currently under review by OMB.

Written comments and recommendations for the proposed information collection should be submitted within 30 days of the publication of this notice on the following website: www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function and entering the title of the collection.

Sheleen Dumas,
Department PRA Clearance Officer, Office of the Chief Information Officer, Commerce Department.

DEPARTMENT OF COMMERCE
International Trade Administration
[C–489–817]

Oil Country Tubular Goods from the Republic of Turkey: Final Results and Partial Rescission of Countervailing Duty Administrative Review; 2018

AGENCY: Enforcement and Compliance, International Trade Administration, Department of Commerce.

SUMMARY: The Department of Commerce (Commerce) determines that Borusan Mannesmann Boru Sanayi ve Ticaret A.S. (Borusan), exporter/producer of oil country tubular goods (OCTG) from the Republic of Turkey (Turkey), received de minimis net countervailable subsidies during the period of review (POR), January 1, 2018, through December 31, 2018. Commerce is also rescinding this review with respect to five non-selected companies for which the customs data show no reviewable entries during the POR.


SUPPLEMENTAL INFORMATION:

Background

On January 26, 2021, Commerce published the Preliminary Results of this administrative review.1 We invited parties to comment on the Preliminary Results. No interested party submitted comments. Borusan requested to participate in a hearing with Commerce, but because no party submitted comments, Commerce did not hold a hearing.2 Commerce conducted this

1 See Oil Country Tubular Goods from the Republic of Turkey: Preliminary Results of Countervailing Duty Administrative Review, Rescission in Part, and Intent to Rescind in Part; 2018, 86 FR 7069 (January 26, 2021) (Preliminary Results), and accompanying Preliminary Decision Memorandum (PDM).
2 See Borusan’s Letter, “Oil Country Tubular Goods from Turkey, Case No. C–489–817; BMB’s Request to Participate in Hearing,” dated February 25, 2021; see also 19 CFR 351.310 (c) (“At the
review in accordance with section 751(a)(1)(A) of the Tariff Act of 1930, as amended (the Act).

Scope of the Order

The merchandise covered by the Order is certain OCTG from Turkey. For a complete description of the scope, see the Preliminary Decision Memorandum accompanying the Preliminary Results.

Changes Since the Preliminary Results

As no party submitted comments on the Preliminary Results, we made no changes in the final results of this review.

Partial Recession of Administrative Review

It is Commerce’s practice to rescind an administrative review of a countervailing duty order, pursuant to 19 CFR 351.213(d)(3), when there are no reviewable entries of subject merchandise during the POR for which liquidation is suspended. Normally, upon completion of an administrative review, the suspended entries are liquidated at the countervailing duty assessment rate calculated for the review period. Therefore, for an administrative review of a company to be conducted, there must be a reviewable, suspended entry that Commerce can instruct U.S. Customs and Border Protection (CBP) to liquidate at the calculated countervailing duty assessment rate calculated for the review period.

According to the CBP import data, the five non-selected companies subject to this review, did not have reviewable entries of subject merchandise during the POR for which liquidation is suspended. Because there is no hearing, an interested party may make an affirmative presentation only on arguments included in that party’s case brief and may make a rebuttal presentation only on arguments included in that party’s rebuttal brief.


4 See Preliminary Results PDM.


6 See 19 CFR 351.212(b)(2).

7 See 19 CFR 351.213(d)(3).

8 These five companies are: Bakir Grup Makine İmalat Bakım Montaj Demontaj Sanayi ve Ticaret Ltd. Sti.; Hydra Insaat Sanayi ve Ticaret Anonim Sirketi; Kalibre Boru Sanayi ve Ticaret; NETBORU San. ve Tic. Koll. Sti.; and Yılmaz Pipo.

9 Commerce has determined that Borusan Mannesmann Boru Sanayi ve Ticaret A.Ş., Borusan İstikbal Ticaret; Borusan Lojistik D. Deg. Tas Ve, Borusan Mannesmann Boru Yatirim Holding A.Ş., and Borusan Holding A.Ş. are cross-owned. See Preliminary Decision Memorandum.

evidence on the record of this segment of the proceeding to indicate that these companies had entries, exports, or sales of subject merchandise to the United States during the POR, we are rescinding the administrative review with respect to these companies consistent with 19 CFR 351.213(d)(3).

Final Results of the Administrative Review

In accordance with section 777A(e)(1) of the Act and 19 CFR 351.221(b)(5), we determine the following net countervailable subsidy rate for Borusan, for the period January 1, 2018, through December 31, 2018:

<table>
<thead>
<tr>
<th>Company</th>
<th>Subsidy rate (percent ad valorem)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borusan Mannesmann Boru Sanayi ve Ticaret A.Ş., Borusan İstikbal Ticaret; Borusan Lojistik D. Deg. Tas Ve, Borusan Mannesmann Boru Yatirim Holding A.Ş., and Borusan Holding A.Ş.</td>
<td>0.38 (de minimis)</td>
</tr>
</tbody>
</table>

Assessment Rates

Commerce shall determine, and CBP shall assess, countervailing duties on all appropriate entries covered by this review, pursuant to section 751(a)(2)(C) of the Act and 19 CFR 351.212(b)(2). Because we calculated a de minimis countervailable subsidy rate for Borusan in the final results of this review, we intend to instruct CBP to liquidate the appropriate entries without regard to countervailing duties in accordance with 19 CFR 351.212(b)(2) and 19 CFR 351.106(c)(1).

With respect to the companies for which this administrative review is rescinded (i.e., Bakir Grup Makine İmalat Bakım Montaj Demontaj Sanayi ve Ticaret Ltd. Sti.; Hydra Insaat Sanayi ve Ticaret Anonim Sirketi; Kalibre Boru Sanayi ve Ticaret; NETBORU San. ve Tic. Koll. Sti.; and Yılmaz Pipo), countervailing duties shall be assessed at rates equal to the cash deposit rate required at the time of entry, or withdrawal from warehouse, for consumption, during the period January 1, 2018, through December 31, 2018, in accordance with 19 CFR 351.212(c)(1)(i).

Commerce intends to issue appropriate assessment instructions to CBP no earlier than 35 days after the date of this publication of the final results of this review in the Federal Register. If a timely summons is filed at the U.S. Court of International Trade, the assessment instructions will direct CBP not to liquidate relevant entries until the time for parties to file a request for a statutory injunction has expired (i.e., within 90 days of publication).

Cash Deposit Requirements

Pursuant to section 751(a)(2)(C) of the Act, Commerce also intends to instruct CBP to collect cash deposits of estimated countervailing duties at the appropriate rates. For shipments of subject merchandise by Borusan entered, or withdrawn from warehouse, for consumption on or after the date of publication of these final results, the cash deposit rate will be zero. For all non-reviewed firms, CBP will continue to collect cash deposits of estimated countervailing duties at the most recent company-specific or all-others rate applicable to the company, as appropriate. These cash deposit requirements, when imposed, shall remain in effect until further notice.

Administrative Protective Order

This notice serves as a reminder to parties subject to administrative protective order (APO) of their responsibility concerning the destruction of proprietary information disclosed under APO in accordance with 19 CFR 351.305(a)(3), which continues to govern business proprietary information in this segment of the proceeding. Timely written notification of return of destruction or conversion to judicial protective order is hereby requested. Failure to comply with the regulations and the terms of an APO is sanctionable violation.

Notification to Interested Parties

These final results are issued and published in accordance with sections 751(a)(1) and 777(i) of the Act.


Christian Marsh.

Acting Assistant Secretary for Enforcement and Compliance.

[FR Doc. 2021-09840 Filed 5–7–21; 8:45 am]

BILLING CODE 3510–DS–P
DEPARTMENT OF COMMERCE
International Trade Administration
[C–570–136]

Certain Chassis and Subassemblies Thereof From the People’s Republic of China: Countervailing Duty Order and Amended Final Affirmative Countervailing Duty Determination

AGENCY: Enforcement and Compliance, International Trade Administration, Department of Commerce.

SUMMARY: Based on affirmative final determinations by the Department of Commerce (Commerce) and the International Trade Commission (ITC), Commerce is issuing a countervailing duty (CVD) order on certain chassis and subassemblies thereof (chassis) from the People’s Republic of China (China). In addition, Commerce is amending its final determination with respect to chassis from China to correct a ministerial error.


FOR FURTHER INFORMATION CONTACT: William Langley or Nicholas Czajkowski, AD/CVD Operations, Office I, Enforcement and Compliance, International Trade Administration, U.S. Department of Commerce, 1401 Constitution Avenue NW, Washington, DC 20230; telephone: (202) 482–3861 or (202) 482–1395, respectively.

SUPPLEMENTARY INFORMATION:

Background

In accordance with sections 705(a), 705(d), and 777(i)(1) of the Tariff Act of 1930, as amended (the Act), and 19 CFR 351.210(c), on March 22, 2021, Commerce published its affirmative final determination that countervailable subsidies are being provided to producers and exporters of chassis from China.1 In the investigation of chassis from China, the Coalition of American Chassis Manufacturers (the petitioner) submitted a timely allegation on the record that Commerce made a ministerial error in the final CVD determination on chassis from China.2

On March 22, 2021, the petitioner submitted a timely ministerial error allegation regarding the Final Determination.3 Commerce reviewed the record and, on April 8, 2021, agreed that the error alleged by the petitioner constituted a ministerial error within the meaning of section 705(e) of the Act and 19 CFR 351.224(f).4 Specifically, Commerce found that it made an error in calculating the subsidy rates for inputs provided for less than adequate remuneration to Qindao CIMC Special Vehicles Co., Ltd. and Dongguan CIMC Vehicle Co., Ltd. and their cross-owned companies (collectively, CIMC). Pursuant to 19 CFR 351.224(e), Commerce is amending the Final Determination to reflect the correction of the ministerial error described in the Ministerial Error Memorandum. Based on the correction, the subsidy rate for CIMCs changed from 39.14 percent to 44.32 percent. Because the all-others rate is based entirely on CIMC’s ad valorem subsidy rate, the all-others rate also changed from 39.14 percent to 44.32 percent.

Countervailing Duty Order

As stated above, on May 3, 2021, in accordance with section 705(d) of the Act, the ITC notified Commerce of its final determination that an industry in the United States is materially injured within the meaning of section 705(b)(1) (A)(i) of the Act by reason of subsidized imports of chassis from China.6 Therefore, in accordance with section 706(a)(1) of the Act, Commerce will direct U.S. Customs and Border Protection (CBP) to assess, upon further instruction by Commerce, countervailing duties for all relevant entries of chassis from China which are entered, or withdrawn from warehouse, for consumption on or after January 4, 2021, the date of publication of the Preliminary Determination,7 but will not include entries occurring after the expiration of the provisional measures period and before the publication of the ITC's final injury determination under section 705(b) of the Act, as further described in the “Provisional Measures” section of this notice.8

Continuation of Suspension of Liquidation and Cash Deposits

Except as noted in the “Provisional Measures” section of this notice, in accordance with section 706(a)(1) of the Act, Commerce will instruct CBP to continue to suspend liquidation on all relevant entries of chassis from China. These instructions suspending liquidation will remain in effect until further notice.

Commerce will also instruct CBP to require cash deposits equal to the net countervailable subsidy rates indicated in the table below. Accordingly, effective on the date of publication in the Federal Register of the notice of the ITC’s final affirmative injury determination, CBP must require, at the same time as importers would deposit estimated normal customs duties on

---

1 See Certain Chassis and Subassemblies Thereof from the People’s Republic of China: Final Affirmative Countervailing Duty Determination, 86 FR 15186 (March 22, 2021) (Final Determination), and accompanying Issues and Decision Memorandum.
4 See Ministerial Error Allegations.
6 See ITC Notification Letter.
8 In the Final Determination, Commerce inadvertently stated that we would instruct CBP to “suspend liquidation of entries of subject merchandise from China that were entered, or withdrawn from warehouse, for consumption, effective January 4, 2020,” which is the date reflected in our instructions to CBP.
subject merchandise, a cash deposit equal to the rates listed in the table below.

<table>
<thead>
<tr>
<th>Company</th>
<th>Subsidy rate (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qingdao CIMC Special Vehicles Co., Ltd. and Dongguan CIMC Vehicle Co., Ltd.</td>
<td>44.32</td>
</tr>
<tr>
<td>All Others</td>
<td>44.32</td>
</tr>
</tbody>
</table>

Provisional Measures

Section 703(d) of the Act states that the suspension of liquidation pursuant to an affirmative preliminary determination may not remain in effect for more than four months. Commerce published the Preliminary Determination on January 4, 2021.\(^9\) The provisional measures period, beginning on the date of publication of the Preliminary Determination, ended on May 3, 2021. Therefore, in accordance with section 703(d) of the Act and our practice, Commerce will instruct CBP to terminate the suspension of liquidation and to liquidate, without regard to countervailing duties, unliquidated entries of chassis from China entered, or withdrawn from warehouse, for consumption after May 3, 2021, the final day on which the provisional measures were in effect, until and through the day preceding the date of publication of the ITC’s final affirmative injury determination in the Federal Register. Suspension of liquidation and the collection of cash deposits will resume on the date of publication of the ITC’s final determination in the Federal Register.

Notification to Interested Parties

This notice constitutes the CVD order with respect to chassis from China pursuant to section 706(a) of the Act. Interested parties can find a list of CVD orders currently in effect at http://enforcement.trade.gov/stats/iastats1.html.

This amended final determination and order is issued and published in accordance with sections 705(d) and 706(a) of the Act and 19 CFR 351.211(b) and 351.224(e).

Christian Marsh,
Acting Assistant Secretary for Enforcement and Compliance.

Appendix

Scope of the Order

The merchandise covered by this order is chassis and subassemblies thereof, whether finished or unfinished, whether assembled or unassembled, whether coated or uncoated, regardless of the number of axles, for carriage of containers, or other payloads (including self-supporting payloads) for road, marine, rolling-on/rolling-off (RO/RO) and/or rail transport. Chassis are typically, but are not limited to, rectangular framed trailers with a suspension and axle system, wheels and tires, brakes, a lighting and electrical system, a coupling for towing behind a truck tractor, and a locking system or systems to secure the shipping container or containers to the chassis using twistlocks, slide pins or similar attachment devices to engage the connector fittings on the container or other payload.

Subject merchandise includes, but is not limited to, the following subassemblies:
- Chassis frames, or sections of chassis frames, including kingpin assemblies, bolsters consisting of transverse beams with locking or support mechanisms, goosenecks, drop assemblies, extension mechanisms and/or rear impact guards;
- Running gear assemblies or axle assemblies for connection to the chassis frame, whether fixed in nature or capable of sliding fore and aft or lifting up and lowering down, which may or may not include suspension(s) (mechanical or pneumatic), wheel end components, slack adjusters, axles, brake chambers, locking pins, and tires and wheels;
- Landing gear assemblies, for connection to the chassis frame, capable of supporting the chassis when it is not engaged to a tractor; and
- Assemblies that connect to the chassis frame or a section of the chassis frame, such as, but not limited to, pintle hooks or B-trains (which include a fifth wheel), which are capable of connecting a chassis to a tractor dolly or another chassis.

Importation of any of these subassemblies, whether assembled or unassembled, constitutes an unfinished chassis for purposes of this order.

Subject merchandise also includes chassis, whether finished or unfinished, entered with or for further assembly with components such as, but not limited to: Hub and drum assemblies, brake assemblies (either drum or disc), axles, brake chambers, suspensions and suspension components, wheel end components, landing gear legs, spoke or disc wheels, tires, brake control systems, electrical harnesses and lighting systems. Processing of finished and unfinished chassis and components such as trimming, cutting, grinding, notching, punching, drilling, painting, coating, staining, finishing, assembly, or any other process either in the country of manufacture of the in-scope product or in a third country does not remove the product from the scope. Inclusion of other components not identified as comprising the finished or unfinished chassis does not remove the product from the scope. Individual components entered and sold by themselves are not subject to the order, but components entered with or for further assembly with a finished or unfinished chassis are subject merchandise.

A finished chassis is ultimately comprised of several different types of subassemblies. Within each subassembly there are numerous components that comprise a given subassembly. This scope excludes dry van trailers, refrigerated van trailers and flatbed trailers. Dry van trailers are trailers with a wholly enclosed cargo space comprised of fixed sides, nose, floor and roof, with articulated panels (doors) across the rear and occasionally at selected places on the sides, with the cargo space being permanently incorporated in the trailer itself. Refrigerated van trailers are trailers with a wholly enclosed cargo space comprised of fixed sides, nose, floor and roof, with articulated panels (doors) across the rear and occasionally at selected places on the sides, with the cargo space being permanently incorporated in the trailer and being insulated, possessing specific thermal properties intended for use with self-contained refrigeration systems. Flatbed (or platform) trailers consist of load-carrying main frames and a solid, flat or stepped loading deck or floor permanently incorporated with and supported by frame rails and cross members.

The finished and unfinished chassis subject to this order are typically classified in the Harmonized Tariff Schedule of the United States (HTSUS) at subheadings: 8716.39.0090 and 8716.90.5060. Imports of finished and unfinished chassis may also enter under HTSUS subheading 8716.90.5010. While the HTSUS subheadings are provided for convenience and customs purposes, the written description of the merchandise under order is dispositive.

[FR Doc. 2021–09848 Filed 5–7–21; 8:45 am]

BILLING CODE 3510–DS–P

DEPARTMENT OF COMMERCE
International Trade Administration

[A–475–818]

Certain Pasta From Italy: Final Results of Changed Circumstances Review

AGENCY: Enforcement and Compliance, International Trade Administration, Department of Commerce.

SUMMARY: On November 9, 2020, the Department of Commerce (Commerce) published the preliminary results of the changed circumstances review (CCR) of the antidumping duty (AD) order on certain pasta from Italy and preliminarily determined that Newlat Food S.p.A. (Newlat) is not the successor-in-interest to Delverde.
Industrie Alimentari S.p.A. (Delverde). Based on our analysis for the final results, Commerce continues to find that Newlat is not the successor-in-interest to Delverde.

**DATES:** Applicable May 10, 2021.


**SUPPLEMENTARY INFORMATION:**

**Background**

On July 14, 1996, Commerce published in the Federal Register an AD order on certain pasta from Italy.1 On July 30, 2020, Newlat requested that, pursuant to section 751(b) of the Tariff Act of 1930, as amended (the Act), and 19 CFR 351.216(b), Commerce initiate and conduct a CCR of the Order to determine if Newlat is the successor-in-interest to Delverde. Newlat also requested that Commerce issue the preliminary results of this CCR in conjunction with the notice of initiation, as permitted under 19 CFR 315.221(c)(3)(ii).2 The domestic industry filed no comments in response to the request for a CCR.

On November 9, 2020, Commerce initiated the CCR and preliminarily determined that Newlat is not the successor-in-interest to Delverde.3 On December 11, 2020, Newlat and the petitioners submitted case briefs regarding the Preliminary Results.4 No party submitted rebuttal briefs. On January 13, 2021, Commerce held a video conference with counsel to Newlat in lieu of the hearing requested on December 9, 2020, the request for which had been withdrawn on December 22, 2020.5 Commerce received no requests from the petitioner for a hearing.

**Scope of the Order**

Imports covered by this Order are shipments of certain non-egg dry pasta. The merchandise subject to this Order is currently classifiable under subheadings 1901.90.9095 and 1902.19.20 of the Harmonized Tariff Schedule of the United States (HTSUS). Although the HTSUS subheadings are provided for convenience and customs purposes, the written description of the merchandise subject to the Order is dispositive. For the full description of the scope of the Order, see the Issues and Decision Memorandum.6

**Final Results of Changed Circumstances Review**

All issues raised in the case briefs are addressed in the Issues and Decision Memorandum. A list of topics included in the Issues and Decision Memorandum is included as an Appendix to this notice. The Issues and Decision Memorandum is a public document and is on file electronically via Enforcement and Compliance’s Antidumping and Countervailing Duty Centralized Electronic Service System (ACCESS). ACCESS is available to registered users at https://access.trade.gov. In addition, a complete version of the Issues and Decision Memorandum can be accessed directly at http://enforcement.trade.gov/fmri/

For the reasons set forth in the Preliminary Results and Commerce’s analysis of the comments received, Commerce continues to find that Newlat has not provided sufficient evidence to demonstrate that the management, production facilities, supplier relationships, and customer base of Delverde, are materially similar to those of Delverde before Newlat’s acquisition with respect to the production and sale of subject merchandise. Thus, Commerce continues to find that Newlat is not the successor-in-interest to Delverde. For the complete successor-in-interest analysis, refer to the Preliminary Decision Memorandum.7

**Cash Deposit Requirements**

As a result of this CCR, Newlat may not receive the company-specific weighted-average dumping margin previously determined for Delverde, but instead shall continue to be subject to the cash deposit rate currently in effect for Newlat, which is the all-others rate, 15.45 percent, as determined in the Section 129 Final.8

**Administrative Protective Order**

This notice serves as a reminder to parties subject to administrative protective orders (APOs) of their responsibility concerning the disposition of proprietary information disclosed under APO in accordance with 19 CFR 351.306. Timely written notification of the destruction of APO materials or conversion to judicial protective order is hereby requested. Failure to comply with the regulations and terms of an APO is a sanctionable violation.

**Notification to Interested Parties**

We are issuing this determination and publishing these final results in accordance with sections 751(b)(1) and 777(i)(1) of the Act and 19 CFR 351.216(b), 351.221(b) and 351.221(c)(5).


Christian Marsh,
Acting Assistant Secretary for Enforcement and Compliance.

**Appendix**

**List of Topics Discussed in the Issues and Decision Memorandum**

I. Summary
II. Background
III. Scope of the Order
IV. Discussion of Interested Parties
Comment 1: Whether Newlat Has Met Commerce’s Successor-In-Interest Criteria
Comment 2: Relationship Between Delverde and Newlat
Comment 3: Evidence Supports Commerce’s Successor-In-Interest Finding
V. Recommendation

[FR Doc. 2021–09866 Filed 5–7–21; 8:45 am]

**BILING CODE 3510–DS–P**

---

1 See Notice of Antidumping Duty Order and Amended Final Determination of Sales at Less Than Fair Value: Certain Pasta from Italy, 61 FR 38544 (July 24, 1996) (Order); see also Notice of Second Amendment to the Final Determination and Antidumping Duty Order: Certain Pasta from Italy, 61 FR 42231 (August 14, 1996) (Order).


3 See Certain Pasta from Italy: Initiation and Preliminary Results of Changed Circumstances Review, 85 FR 71315 (November 9, 2020) (Preliminary Results), and accompanying Preliminary Decision Memorandum.


6 See accompanying Issues and Decision Memorandum.

7 Id.

DEPARTMENT OF COMMERCE

International Trade Administration

[A–201–837; A–570–954]

 Certain Magnesia Carbon Bricks From Mexico and the People’s Republic of China: Final Results of the Expedit ed Second Sunset Reviews of the Antidumping Duty Orders

AGENCY: Enforcement and Compliance, International Trade Administration, Department of Commerce.

SUMMARY: As a result of these expedited sunset reviews, the Department of Commerce (Commerce) finds that revocation of the antidumping duty (AD) orders on certain magnesia carbon bricks (MCBs) from Mexico and the People’s Republic of China (China) would be likely to lead to the continuation or recurrence of dumping at the levels indicated in the “Final Results of Review” section of this notice.


SUPPLEMENTARY INFORMATION:

Background

On September 20, 2010, Commerce published the AD orders on MCBs from China and Mexico.1 On January 4, 2021, Commerce published the notice of initiation of the second sunset reviews of the AD Orders, pursuant to section 751(c) of the Tariff Act of 1930, as amended (the Act).2 In January 2021, Commerce received notices of intent to participate within the 15-day deadline specified in 19 CFR 351.218(d)(3).4 We received no substantive response from respondent interested parties with respect to either of the orders covered by these sunset reviews.

On February 22, 2021, Commerce notified the U.S. International Trade Commission that it did not receive an adequate substantive response from respondent interested parties.5 As a result, pursuant to section 751(c)(3)(B) of the Act and 19 CFR 351.218(e)(1)(ii)(C)(2), Commerce conducted expedited (120-day) sunset reviews of the AD Orders.

Scope of the Orders

The scope of these orders includes certain chemically-bonded (resin or pitch), magnesia carbon bricks with a magnesia content of at least 70 percent magnesia (MgO) by weight, regardless of the source of raw materials for the MgO, with carbon levels ranging from trace amounts to 30 percent by weight, regardless of enhancements (for example, magnesia carbon bricks can be enhanced with coating, grinding, tar impregnation or coking, high temperature heat treatments, anti-slip treatments or metal casing) and regardless of whether or not antioxidants are present (for example, antioxidants can be added to the mix from trace amounts to 15 percent by weight as various metals, metal alloys, and metal carbides).

Certain magnesia carbon bricks that are the subject of these orders are currently classifiable under subheadings 6902.10.0000, 6902.10.5000, 6815.91.0000, 6815.99.2000 and 6815.99.4000 of the Harmonized Tariff Schedule of the United States (HTSUS). While HTSUS subheadings are provided for convenience and customs purposes, the written description is dispositive.

Analysis of Comments Received

All issues raised in these sunset reviews are addressed in the Issues and Decision Memorandum.6 The issues discussed in the Issues and Decision Memorandum are the likelihood of continuation or recurrence of dumping and the magnitude of the dumping margin likely to prevail if the orders were revoked. The Issues and Decision Memorandum is a public document and is on file electronically via Enforcement and Compliance’s Antidumping and Countervailing Duty Centralized Electronic Service System (ACCESS). ACCESS is available to registered users at http://access.trade.gov. A list of topics discussed in the Issues and Decision Memorandum is included as an appendix to this notice. In addition, a complete version of the Issues and Decision Memorandum can be accessed directly on the internet at http://enforcement.trade.gov/frm.

Final Results of Reviews

Pursuant to sections 751(c)(1) and 752(c)(1) and (3) of the Act, Commerce determines that revocation of the AD Orders would be likely to lead to the continuation or recurrence of dumping at weighted-average dumping margins up to 236 percent for China and up to 57.90 percent for Mexico.

Administrative Protective Order (APO)

This notice also serves as the only reminder to parties subject to an APO of their responsibility concerning the return or destruction of proprietary information disclosed under APO in accordance with 19 CFR 351.305. Timely notification of the return or destruction of APO materials or conversion to judicial protective orders is hereby requested. Failure to comply with the regulations and terms of an APO is a violation which is subject to sanction.

Notification to Interested Parties

We are issuing and publishing the final results and this notice in accordance with sections 751(c), 752(c), and 777(i)(1) of the Act, and 19 CFR 351.218.


Christian Marsh,

Acting Assistant Secretary for Enforcement and Compliance.

Appendix

List of Topics Discussed in the Issues and Decision Memorandum

I. Summary
II. Background
III. Scope of the Orders
IV. History of the Orders
V. Legal Framework
VI. Discussion of the Issues

2 See Initiation of Five-Year (Sunset) Reviews, 86 FR 60 (January 4, 2021).


On January 4, 2021, Commerce published the notice of initiation of the second sunset review of the Order, pursuant to section 751(c) of the Tariff Act of 1930, as amended (the Act). Commerce received a notice of intent to participate from Magnesia Carbon Bricks Fair Trade Committee (the Committee), an ad hoc association of U.S. producers of magnesia carbon bricks, within the deadline specified in 19 CFR 351.218(d)(1)(i). The Committee claimed interested party status under section 771(9)(E) of the Act, as a trade or business association a majority of whose members manufacture, produce, or wholesale a domestic like product in the United States and stated that each member of the Committee is a manufacturer of the domestic like product and thus, are domestic interested parties pursuant to section 771(9)(C) of the Act.

Commerce received a substantive response from the Committee within the 30-day deadline specified in 19 CFR 351.218(d)(3)(i). We received no substantive response from any other domestic or interested parties in this proceeding, nor was a hearing requested.

On February 22, 2021, Commerce notified the U.S. International Trade Commission (ITC) that it did not receive an adequate substantive response from respondent interested parties. As a result, pursuant to section 751(c)(3)(B) of the Act and 19 CFR 351.218(e)(1)(ii)(C)(2), Commerce conducted an expedited (120-day) sunset review of this Order.

**Scope of the Order**

The merchandise subject to this Order includes certain chemically-bonded (resin or pitch), magnesia carbon bricks. Certain magnesia carbon bricks that are the subject of this order are currently classifiable under subheadings 6815.91.0000, 6815.99.2000 and 6815.99.4000 of the Harmonized Tariff Schedule of the United States (HTSUS). Although the HTSUS subheading is provided for convenience and customs purposes, the written description of the merchandise covered by the scope of the Order is dispositive. For a complete description of the scope of the Order, see the accompanying Issues and Decision Memorandum.

**Analysis of Comments Received**

All issues raised in this sunset review are addressed in the Issues and Decision Memorandum. A list of topics discussed in the Issues and Decision Memorandum is included as an appendix to this notice. The Issues and Decision Memorandum is a public document and is on file electronically via the Enforcement and Compliance’s Antidumping and Countervailing Duty Centralized Electronic Service System (ACCESS). ACCESS is available to registered users at http://access.trade.gov. In addition, a complete version of the Issues and Decision Memorandum can be accessed directly on the internet at http://enforcement.trade.gov/frn/.

**Final Results of Sunset Review**

Pursuant to sections 751(c)(1) and 752(b) of the Act, we determine that revocation of the CVD order on bricks from China would be likely to lead to continuation or recurrence of countervailable subsidies at the following rates:

<table>
<thead>
<tr>
<th>Manufacturers/producers/exporters</th>
<th>Net countervailable subsidy (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHI Refractories Liaoning Co., Ltd. (RHL), RHI Refractories (Dalian) Co., Ltd. (RHID), and Liaoning RHI Jinding Magnesia Co., Ltd. (RHIJ) (collectively, RHI)</td>
<td>3.00</td>
</tr>
<tr>
<td>Liaoning Mayerton Refractories (LMR) and Dalian Mayerton Refractories Co. Ltd. (DMR) (collectively, Mayerton)</td>
<td>253.87</td>
</tr>
<tr>
<td>All Others</td>
<td>3.00</td>
</tr>
</tbody>
</table>

5 Id.
Administrative Protective Order (APO)

This notice also serves as the only reminder to parties subject to an APO of their responsibility concerning the return or destruction of proprietary information disclosed under APO in accordance with 19 CFR 351.305. Timely notification of the return or destruction of APO materials or conversion to judicial protective order is hereby requested. Failure to comply with the regulations and terms of an APO is a violation which is subject to sanction.

Notification to Interested Parties

We are issuing and publishing the final results and this notice in accordance with sections 751(c), 752(b), and 777(i)(1) of the Act, and 19 CFR 351.218.


Christian Marsh,
Acting Assistant Secretary for Enforcement and Compliance.

Appendix

List of Topics Discussed in the Issues and Decision Memorandum

I. Summary
II. Background
III. History of the Order
IV. Scope of the Order
V. Legal Framework
VI. Discussion of the Issues
1. Likelihood of Continuation or Recurrence of a Countervailable Subsidy
2. Net Countervailable Subsidy Rates
3. Likely to Prevail
4. Nature of the Subsidies
VII. Final Results of Sunset Review
VIII. Recommendation

FOR FURTHER INFORMATION CONTACT:

SUPPLEMENTARY INFORMATION:

Background

On July 1, 2020, Commerce published in the Federal Register a notice of opportunity to request an administrative review of the AD order 1 on certain steel nails from Vietnam for the POR.2 On July 31, 2020, Commerce received a timely request from Mid Continent Steel & Wire, Inc. (the petitioner), in accordance with section 751(a) of the Tariff Act of 1930, as amended (the Act), and 19 CFR 351.213(b), to conduct an administrative review of this AD order for 23 companies.3 No other party requested an administrative review. On September 3, 2020, Commerce published in the Federal Register a notice of initiation with respect to the following 23 companies:

1. Atlantic Manufacture Inc.
2. Chia Pao Metal Co., Ltd.
3. Delmar International (Vietnam) Ltd.
4. Dicha Sombrilla Co., Ltd.
5. Easylink Industrial Co., Ltd.
6. Expeditors Vietnam Company Limited
7. Gia Linh Logistics Services Co., Ltd.
8. Global Logistics Solution Co., Ltd.
9. Inmax Industries SDN. BHD
10. Jinhai Hardware Co., Ltd.
12. KFP Vietnam Co., Ltd.
13. KFP Vina Co., Ltd.
15. Oriental Multiple Enterprise Ltd.
17. Region Industries Co., Ltd.
19. Top Shipping Company Limited
20. Topy Fasteners Vietnam Co., Ltd.
21. Truong Vinh Ltd.
22. United Nail Products Co., Ltd.
23. Vina Hardwares Joint Stock Company

On September 24, 2020, the petitioner timely withdrew its request for an administrative review for all 23 companies.5

Recission of Administrative Review

Pursuant to 19 CFR 351.213(d)(1), Commerce will rescind an administrative review, in whole or in part, if the parties that requested a review withdraw the request within 90 days of the date of publication of the notice of initiation of the requested review. The petitioner withdrew its request for review for all companies by the 90-day deadline, and no other party requested an administrative review of this order. Therefore, we are rescinding the administrative review of the AD order on certain steel nails from Vietnam covering the period July 1, 2019, through June 30, 2020, in its entirety.

Assessment

Commerce will instruct U.S. Customs and Border Protection (CBP) to assess antidumping duties on all appropriate entries. Antidumping duties shall be assessed at rates equal to the cash deposit of estimated antidumping duties required at the time of entry, or withdrawal from warehouse, for consumption, in accordance with 19 CFR 351.212(c)(1)(i). Consistent with its recent notice,6 Commerce intends to issue assessment instructions to CBP no earlier than 35 days after the date of publication of the final results of this review in the Federal Register. If a timely summons is filed at the U.S. Court of International Trade, the assessment instructions will direct CBP not to liquidate relevant entries until the time for parties to file a request for a statutory injunction has expired (i.e., within 90 days of publication).

Notification to Importers

This notice serves as the only reminder to importers of their responsibility, under 19 CFR 351.402(f)(2), to file a certificate regarding the reimbursement of antidumping duties prior to liquidation of the relevant entries during this review period. Failure to comply with this requirement may result in the presumption that reimbursement of antidumping duties occurred and the

4 See Notice of Termination of Antidumping Duty Administrative Review, 80 FR 39994 (July 13, 2015).
DEPARTMENT OF COMMERCE

International Trade Administration

[A–570–945, C–570–946]

Prestressed Concrete Steel Wire Strand From the People’s Republic of China: Continuation of Antidumping and Countervailing Duty Orders

AGENCY: Enforcement and Compliance, International Trade Administration, Department of Commerce.

SUMMARY: As a result of the determinations by the Department of Commerce (Commerce) and the International Trade Commission (ITC) that revocation of the antidumping (AD) and countervailing duty (CVD) orders on prestressed concrete steel wire strand (PC strand) from the People’s Republic of China (China) would likely lead to a continuation or recurrence of dumping and net countervailable subsidies as well as material injury to an industry in the United States within a reasonably foreseeable time, the product covered by the orders is PC strand, produced from wire of non-stainless, non-galvanized steel, which is suitable for use in prestressed concrete (both pretensioned and post-tensioned) applications. The product definition encompasses covered and uncovered strand and all types, grades, and diameters of PC strand. PC strand is normally sold in the United States in sizes ranging from 0.25 inches to 0.70 inches in diameter. PC strand made from galvanized wire is only excluded from the scope if the zinc and/or zinc oxide coating meets or exceeds the 0.40 oz./B2 standard set forth in ASTM–A–475. Imports of the subject merchandise are currently classifiable under subheadings 7312.10.3010 and 7312.10.3012 of the Harmonized Tariff Schedule of the United States (HTSUS). Although the HTSUS subheadings are provided for convenience and customs purposes, the written description of the scope of these orders is dispositive.

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

[RTID 0648–XB055]

Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to the North Jetty Maintenance and Repairs Project in Coos Bay, Oregon

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.
ACTION: Notice; issuance of incidental harassment authorization.

SUMMARY: NMFS has received a request from the U.S. Army Corps of Engineers (USACE) for the re-issuance of a previously issued incidental harassment authorization (IHA) with the only change being effective dates. The initial IHA authorized take of seven species of marine mammals, by Level B harassment only, incidental to construction associated with the Coos Bay North Jetty maintenance and repairs project in Coos Bay, Oregon. The project has been delayed and none of the work covered in the initial IHA has been conducted. The initial IHA was effective from September 1, 2020, through August 31, 2021. The USACE has requested re-issuance with new effective dates of September 1, 2021, through August 31, 2022. The scope of the activities and anticipated effects remain the same, authorized take numbers are not changed, and the required mitigation, monitoring, and reporting remains the same as included in the initial IHA. NMFS is, therefore, issuing a second identical IHA to cover the incidental take analyzed and authorized in the initial IHA.

DATES: This authorization is effective from September 1, 2021 through August 31, 2022.

ADDRESSES: An electronic copy of the final 2020 IHA previously issued to the USACE, the USACE’s application, and the Federal Register notices proposing and issuing the initial IHA may be obtained by visiting https://www.fisheries.noaa.gov/action/incidental-take-authorization-us-army-corps-engineers-north-jetty-maintenance-and-repairs. In case of problems accessing these documents, please call the contact listed below (see FOR FURTHER INFORMATION CONTACT).

FOR FURTHER INFORMATION CONTACT: Amy Fowler, Office of Protected Resources, NMFS, (301) 427–8401.

SUPPLEMENTARY INFORMATION:

Background

Sections 101(a)(5)(A) and (D) of the Marine Mammal Protection Act (MMPA; 16 U.S.C. 1361 et seq.) direct the Secretary of Commerce (as delegated to NMFS) to allow, upon request, the incidental, but not intentional, taking of small numbers of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographical region if certain conditions are met and either regulations are issued or, if the taking is limited to harassment, a notice of a proposed authorization is provided to the public for review.

An authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s), will not have an unmitigable adverse impact on the availability of the species or stock(s) for subsistence uses (where relevant), and if the permissible methods of taking and requirements pertaining to the mitigation, monitoring and reporting of such takings are set forth.

NMFS has defined “negligible impact” in 50 CFR 216.103 as an impact resulting from the specified activity that cannot be reasonably expected to, and is not reasonably likely to, adversely affect the species or stock through effects on annual rates of recruitment or survival.

The MMPA states that the term “take” means to harass, hunt, capture, kill or attempt to harass, hunt, capture, or kill any marine mammal. Except with respect to certain activities not pertinent here, the MMPA defines “harassment” as any act of pursuit, torment, or annoyance which (i) has the potential to injure a marine mammal or marine mammal stock in the wild (Level A harassment); or (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering (Level B harassment).

Summary of Request

On March 18, 2019, NMFS received a request from USACE for two IHAs to take marine mammals incidental to vibratory pile driving and removal associated with the North Jetty maintenance and repairs project, Coos Bay, Oregon over the course of two years with pile installation occurring during Year 1 and pile removal occurring during Year 2. The application was deemed adequate and complete on September 10, 2019. The USACE’s request for take of a small number of seven species of marine mammals by Level B harassment only. Neither USACE nor NMFS expects injury, serious injury or mortality to result from this activity and, therefore, IHAs are appropriate. The USACE, in coordination with the Oregon Department of Fish and Wildlife (ODFW) and NMFS’ Northwest Region, plans to conduct pile driving and removal October 1st through February 15th and June 1st and July 31st to minimize effects to listed salmonids. Adherence to the in-water work window is part of USACE’s Endangered Species Act (ESA) consultation under Standard Local Operating Procedures for Endangered Species (SLOPES) to administer actions authorized or carried out by the USACE in Oregon (SLOPES IV In-water Over-water Structures). The ODFW will make the final determination of the in-water work window. On January 3, 2020, NMFS issued the two IHAs to the USACE. The Year 1 IHA was effective from September 1, 2020 through August 31, 2021 and the Year 2 IHA was effective July 1, 2022 through June 30, 2023. On February 20, 2021, the USACE notified NMFS that the project had been delayed. None of the work identified in the year 1 IHA (e.g., pile installation) has occurred. The USACE submitted a request for a new identical IHA for Year 1 of construction that would be effective from September 1, 2021 through August 31, 2022, in order to conduct the construction work that was analyzed and authorized through the previously issued IHA (hereafter referred to as the initial IHA). Therefore, re-issuance of the IHA is appropriate.

Summary of Specified Activity and Anticipated Impacts

The planned activities (including mitigation, monitoring, and reporting), authorized incidental take, and anticipated impacts on the affected stocks are the same as those analyzed and authorized through the previously issued IHA.

The purpose of the USACE’s construction project is to repair critically damaged sections of the Coos Bay North Jetty, monitor erosion, and to maintain stable deep-draft navigation through the entrance into Coos Bay. Repair activities completed now will reduce the risk of jetty failure or a potential breach of the Coos Bay North Spit (CBNS). The USACE maintains this jetty system and navigational channels, and is planning on conducting major repairs and rehabilitation of the North Jetty. The location, timing, and nature of the activities, including the types of equipment planned for use, are identical to those described in the initial IHA. The mitigation and monitoring are also as prescribed in the initial IHA.

Species that are expected to be taken by the planned activity include the harbor seal (Phoca vitulina), northern elephant seal (Mirounga angustirostris), Steller sea lion (Eumetopias jubatus), California sea lion (Zalophus californianus), gray whale (Eschrichtius robustus), harbor porpoise (Phocoena phocoena), and killer whale (Orcinus).
was authorized is found in the previous documents referenced above. The data inputs and methods of estimating take are identical to those used in the initial IHA. NMFS has reviewed recent Stock Assessment Reports, information on relevant Unusual Mortality Events, and recent scientific literature, and determined that no new information affects our original analysis of impacts or take estimate under the initial IHA.

We refer to the documents related to the initial IHA, which include the Federal Register notice of the issuance of the initial Year 1 and Year 2 IHAs for the USACE’s construction work (85 FR 1140; January 9, 2020), the USACE’s application, the Federal Register notice of the proposed IHAs (84 FR 56781; October 23, 2019), and all associated references and documents.

**Determinations**

The USACE will conduct activities as analyzed in the initial IHA. As described above, the number of authorized takes of the same species and stocks of marine mammals are identical to the numbers that were found to meet the negligible impact and small numbers standards and authorized under the initial IHA and no new information has emerged that would change those findings. The re-issued Year 1 IHA includes identical required mitigation, monitoring, and reporting measures as the initial IHA, and there is no new information suggesting that our analysis or findings should change.

Based on the information contained here and in the referenced documents, NMFS has determined the following: (1) The required mitigation measures will effect the least practicable impact on marine mammal species or stocks and their habitat; (2) the authorized takes will have a negligible impact on the affected marine mammal species or stocks; (3) the authorized takes represent small numbers of marine mammals relative to the affected stock abundances; and (4) the USACE’s activities will not have an unmitigable adverse impact on taking for subsistence purposes as no relevant subsistence uses of marine mammals are implicated by this action.

**National Environmental Policy Act**

To comply with the National Environmental Policy Act of 1969 (NEPA; 42 U.C.S. 4321 et seq.) and NOAA Administrative Order (NAO) 216–6A, NMFS must review our proposed action with respect to environmental consequences on the human environment.

Accordingly, NMFS has determined that the issuance of the IHA qualifies to be categorically excluded from further NEPA review. This action is consistent with categories of activities identified in CE B4 of the Companion Manual for NOAA Administrative Order 216–6A, which do not individually or cumulatively have the potential for significant impacts on the quality of the human environment and for which we have not identified any extraordinary circumstances that would preclude this categorical exclusion.

**Endangered Species Act (ESA)**

Section 7(a)(2) of the Endangered Species Act of 1973 (ESA; 16 U.S.C. 1531 et seq.) requires that each Federal agency insure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of designated critical habitat. To ensure ESA compliance for the issuance of IHAs, NMFS consults internally whenever we propose to authorize take for endangered or threatened species.

However, no incidental take of ESA-listed species is authorized or expected to result from this activity. Therefore, NMFS has determined that formal consultation under section 7 of the ESA is not required for this action.

**Authorization**

NMFS has issued an IHA to the USACE for in-water construction activities associated with the specified activity from September 1, 2021 through August 31, 2022. All previously described mitigation, monitoring, and reporting requirements from the initial Year 1 IHA are incorporated.


Catherine Marzin,
Acting Director, Office of Protected Resources, National Marine Fisheries Service.

**DEPARTMENT OF COMMERCE**

**Patent and Trademark Office**

[Docket No. PTO–P–2021–0027]

**Grant of Interim Extension of the Term of U.S. Patent No. 9,364,354; Reducer®**

**AGENCY:** United States Patent and Trademark Office, Department of Commerce.

**ACTIONS:** Notice of interim patent term extension.

**SUMMARY:** The United States Patent and Trademark Office has issued an order granting interim extension for a one-year interim extension of the term of U.S. Patent No. 9,364,354.

**FOR FURTHER INFORMATION CONTACT:** Ali Salimi by telephone at (571) 272–0909; by email to his attention at alicr.salimi@uspto.gov.

**SUPPLEMENTARY INFORMATION:** Section 156 of Title 35, United States Code, generally provides that the term of a patent may be extended for a period of up to five years if the patent claims a product, or a method of making or using a product, that has been subject to certain defined regulatory review, and that the patent may be extended for interim periods of up to one year if the regulatory review is anticipated to extend beyond the expiration date of the patent.

On April 20, 2021, Neovasc Medical Ltd., the patent owner of record, timely filed an application under 35 U.S.C. 156(d)(5) for a second interim extension of the term of U.S. Patent No. 9,364,354. The patent claims the catheter implantable device, Reducer®. The application for patent term extension indicates that a Premarket Approval Application (PMA) P190035 was submitted to the Food and Drug Administration (FDA) on December 31, 2019.

Review of the patent term extension application indicates that, except for permission to market or use the product commercially, the subject patent would be eligible for an extension of the patent term under 35 U.S.C. 156, and that the patent should be extended for one year as required by 35 U.S.C. 156(d)(5)(B). Because the regulatory review period will continue beyond the once-extended expiration date of the patent, June 6, 2021, a second interim extension of the patent term under 35 U.S.C. 156(d)(5) is appropriate.

A second interim extension under 35 U.S.C. 156(d)(5) of the term of U.S. Patent No. 9,364,354 is granted for a period of one year from the once-extended expiration date of the patent.

Robert Bahr,
Deputy Commissioner for Patents, United States Patent and Trademark Office.
DEPARTMENT OF EDUCATION

[Docket No. ED--2021–SCC--0071]

Agency Information Collection Activities; Comment Request; Rural, Insular, Native Achievement Programs (RINAP) Progress Update—Outlying Areas and the Republic of Palau

AGENCY: Office of Elementary and Secondary Education (OESE), Department of Education (ED).

ACTION: Notice.

SUMMARY: In accordance with the Paperwork Reduction Act of 1995, ED is requesting the Office of Management and Budget (OMB) to conduct an emergency review of a new information collection.

DATES: The Department has requested emergency processing from OMB for this information collection request by May 31, 2021; and therefore, request interested persons to submit comments by May 26, 2021. The regular clearance process is also being initiated to provide the public with the opportunity to comment under the full comment period. Interested persons are invited to submit comments on or before July 9, 2021.

ADDRESSES: To access and review all the documents related to the information collection listed in this notice, please use http://www.regulations.gov by searching the Docket ID number ED–2021–SCC–0071. Comments submitted in response to this notice should be submitted electronically through the Federal eRulemaking Portal at http://www.regulations.gov by selecting the Docket ID number or via postal mail, commercial delivery, or hand delivery. If the regulations.gov site is not available to the public for any reason, ED will temporarily accept comments at ICDocketMgr@ed.gov. Please include the docket ID number and the title of the information collection request when requesting documents or submitting comments. Please note that comments submitted by fax or email and those submitted after the comment period will not be accepted. Written requests for information or comments submitted by postal mail or delivery should be addressed to the PRA Coordinator of the Strategic Collections and Clearance Governance and Strategy Division, U.S. Department of Education, 400 Maryland Ave. SW, LBJ, Room 6W208D, Washington, DC 20202–8240.

FOR FURTHER INFORMATION CONTACT: For specific questions related to collection activities, please contact Joanne Osborne, 202–401–1265.

SUPPLEMENTARY INFORMATION: The Department of Education (ED), in accordance with the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3506(c)(2)(A)), provides the general public and Federal agencies with an opportunity to comment on proposed, revised, and continuing collections of information. This helps the Department assess the impact of its information collection requirements and minimize the public’s reporting burden. It also helps the public understand the Department’s information collection requirements and provide the requested data in the desired format. ED is soliciting comments on the proposed information collection request (ICR) that is described below. The Department of Education is especially interested in public comment addressing the following issues: (1) Is this collection necessary to the proper functions of the Department; (2) will this information be processed and used in a timely manner; (3) is the estimate of burden accurate; (4) how might the Department enhance the quality, utility, and clarity of the information to be collected; and (5) how might the Department minimize the burden of this collection on the respondents, including through the use of technology. Please note that written comments received in response to this notice will be considered public records.

Title of Collection: Rural, Insular, Native Achievement Programs (RINAP) Progress Update—Outlying Areas and the Republic of Palau

OMB Control Number: 1810–NEW.

Type of Review: A new information collection.

Respondents/Affected Public: State, Local, and Tribal Governments.

Total Estimated Number of Annual Responses: 52.

Total Estimated Number of Annual Burden Hours: 52.

Abstract: The Rural, Insular, and Native Achievement Program (RINAP), within the Office of Elementary and Secondary Education (OESE), part of the U.S. Department of Education (ED), seeks emergency approval from OMB for its progress update protocol for the Outlying Areas and the Republic of Palau. RINAP administers Section 1121 of Title I, Part A of the ESEA; Title II of Public Law 108–118 (Supplemental Education Grant (SEGI)), CARES Act—Outlying Areas; Title III of CRRSA—Outlying Areas, Sections 2005 and 11006(2–3) of the ARP; Title V, Part B of the ESEA (Rural Education Achievement Program), Title VI, Part B of the ESEA (Native Hawaiian Education); and Title VI, Part C of the ESEA (Alaska Native Education).

Periodic progress updates, phone, virtual, or in-person conversations during a fiscal year with authorized representatives and project directors help ensure grantees are making progress toward meeting program goals and objectives. The information shared with RINAP helps inform the selection and delivery of technical assistance to grantees and aligns structures, processes, and routines so RINAP can monitor the connection between grant administration and intended outcomes.

Additional Information: If this collection is not allowed to proceed, ED will not be able to fulfill its oversight responsibilities under 2 CFR 200.207 and 2 CFR 3474.10. Three of the four Outlying Areas have been designated for high-risk status for over ten years resulting in ED’s need to more routinely monitor grantee progress and program implementation. The Risk Management Services Division of the Office of Grants Administration has determined that all ED grants awarded to the State education agency in each Outlying Area are subject to Departmental Specific Conditions applicable to that Outlying Area. In addition, two Outlying Areas are each required to have a third-party fiduciary agent to manage ED funds. Given that the funds have already been awarded to the Outlying Areas, the need for immediate and frequent monitoring and technical assistance is critical to ensure that the funds are used in accordance with grant award assurances and conditions.


Kate Mullan,

PRA Coordinator, Strategic Collections and Clearance, Governance and Strategy Division, Office of Chief Data Officer, Office of Planning, Evaluation and Policy Development.

[FR Doc. 2021–09847 Filed 5–7–21; 8:45 am]

BILLING CODE 4000–01–P

DEPARTMENT OF ENERGY

Environmental Management Site-Specific Advisory Board, Paducah; Meeting

AGENCY: Office of Environmental Management, Department of Energy.

ACTION: Notice of open virtual meeting.

SUMMARY: This notice announces an online virtual meeting of the Environmental Management Site-Specific Advisory Board (EM SSAB), Paducah. The Federal Advisory Committee Act requires that public notice of this online virtual meeting be announced in the Federal Register.
DEPARTMENT OF ENERGY
Agency Information Collection Extension

AGENCY: U.S. Department of Energy.

ACTION: Submission for Office of Management and Budget (OMB) review; comment request.

SUMMARY: The Department of Energy (DOE) has submitted an information collection request to the OMB for extension under the provisions of the Paperwork Reduction Act of 1995. The information collection requests a three-year extension of its Privacy Act Administration, OMB Control Number 1910–1700. The proposed collection will aid DOE’s processing of Privacy Act requests submitted by an individual or an authorized representative, wherein he or she requests records that the government may maintain pertaining to that individual. The DOE’s use of the form continues to contribute to DOE’s Privacy Act processes, including, but not limited to, providing for faster processing of Privacy Act Information requests by asking individuals or their authorized representatives for pertinent information needed for records retrieval; (5) Annual Estimated Number of Respondents: 406; (6) Annual Estimated Number of Total Responses: 406; (7) Annual Estimated Number of Burden Hours: 135; (8) Annual Estimated Reporting and Recordkeeping Cost Burden: $7,973.

Statutory Authority: The Privacy Act of 1974, 5 U.S.C. 552(a); 10 CFR 1008.7; and DOE Order 206.1.

Signing Authority: This document of the Department of Energy was signed on April 7, 2021 by Emery Csulak, Acting Chief Information Officer, pursuant to delegated authority from the Secretary of Energy. That document with the original signature and date is maintained by DOE. For administrative purposes only, and in compliance with requirements of the Office of the Federal Register, the undersigned DOE Federal Register Liaison Officer has been authorized to sign and submit the document in electronic format for publication, as an official document of the Department of Energy. This administrative process in no way alters the legal effect of this document upon publication in the Federal Register.

Signed in Washington, DC, on May 5, 2021.

Treena V. Garrett, Federal Register Liaison Officer, U.S. Department of Energy.

[FR Doc. 2021–09812 Filed 5–7–21; 8:45 am]

BILLING CODE 6450–01–P

DEPARTMENT OF ENERGY

Environmental Management Site-Specific Advisory Board, Oak Ridge; Meeting

AGENCY: Office of Environmental Management, Department of Energy.

ACTION: Notice of open virtual meeting.

SUMMARY: This notice announces an online virtual meeting of the Environmental Management Site-Specific Advisory Board (EM SSAB), Oak Ridge. The Federal Advisory Committee Act requires that public notice of this online meeting be announced in the Federal Register.

DATES: Wednesday, June 9, 2021; 6:00 p.m.–7:30 p.m.

ADDRESSES: Online Virtual Meeting. To attend, please send an email to: orssab@orem.doe.gov by no later than 5:00 p.m. EDT on Wednesday, June 2, 2021.

To Submit Public Comments: Public comments will be accepted via email.
DEPARTMENT OF ENERGY

Environmental Management Site-Specific Advisory Board, Portsmouth; Meeting

AGENCY: Office of Environmental Management, Department of Energy.

ACTION: Notice of open virtual meeting.

SUMMARY: This notice announces an online virtual meeting of the Environmental Management Site-Specific Advisory Board (EM SSAB), Portsmouth. The Federal Advisory Committee Act requires that public notice of this online virtual meeting be announced in the Federal Register.

DATES: Thursday, June 3, 2021; 6:00 p.m.–7:30 p.m.

ADDRESSES: Online Virtual Meeting. To attend, please send an email to the Federal Coordinator, Greg Simonton, at greg.simonton@pppo.gov by no later than 5:00 p.m. EDT on Monday, May 31, 2021.

To Submit Public Comments: Public comments will be accepted via email prior to and after the meeting. Comments received by no later than 5:00 p.m. EDT on Monday, May 31, 2021 will be read aloud during the virtual meeting. Comments will also be accepted after the meeting, by no later than 5:00 p.m. EDT on Friday, June 4, 2021. Please submit comments to greg.simonton@pppo.gov.

FOR FURTHER INFORMATION CONTACT: Greg Simonton, Federal Coordinator, by Phone: (740) 897–3737 or Email: greg.simonton@pppo.gov.

SUPPLEMENTARY INFORMATION:

Purpose of the Board: The purpose of the Board is to make recommendations to DOE–EM and site management in the areas of environmental restoration, waste management, and related activities.

Tentative Agenda:
- Comments from the Deputy Designated Federal Officer (DDFO)
- Comments from the DOE, Tennessee Department of Environment and Conservation, and Environmental Protection Agency Liaisons
- Presentation: Groundwater Remedies
- Public Comment Period
- Motions/Approval of May 12, 2021 Meeting Minutes
- Status of Outstanding Recommendations
- Alternate DDFO Report
- Committee Reports

Public Participation: The online meeting is open to the public. Written statements may be filed with the Board either before or after the meeting as there will not be opportunities for live public comment during this online virtual meeting. The Deputy Designated Federal Officer is empowered to conduct the meeting in a fashion that will facilitate the orderly conduct of business. Individuals wishing to submit public comments should email them as directed above.

Minutes: Minutes will be available by writing or calling Melyssa P. Noe at the address and telephone number listed above. Minutes will also be available at the following website: https://www.energy.gov/orem/listings/oak-ridge-site-specific-advisory-board-meetings.

Signed in Washington, DC, on May 4, 2021.

LaTanya Butler,
Deputy Committee Management Officer.

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[DOcket No. EL21–71–000]

Macquarie Energy LLC v. PacifiCorp; Notice of Complaint

Take notice that on May 3, 2021, pursuant to section 206 of the Federal Power Act, 16 U.S.C. 824e and Rule 206 of the Federal Energy Regulatory Commission’s (Commission) Rules of Practice and Procedure, 18 CFR 385.206 (2020), Macquarie Energy LLC (Complainant) filed a formal complaint against PacifiCorp (Respondent), alleging that the Respondent has violated Commission regulations and Orders 888, 889, and 890 et seq. by refusing transmission service to Macquarie, all as more fully explained in its complaint.

The Complainant certify that copies of the complaint were served on the contacts listed for Respondent in the Commission’s list of Corporate Officials.

Any person desiring to intervene or to protest this filing must file in accordance with Rules 211 and 214 of the Commission’s Rules of Practice and Procedure (18 CFR 385.211, 385.214). Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a notice of intervention or motion to intervene, as appropriate. The Respondent’s answer and all interventions, or protests must be filed on or before the comment date.
The Respondent’s answer, motions to intervene, and protests must be served on the Complainant.

The Commission strongly encourages electronic filings of comments, protests and interventions in lieu of paper using the “eFiling” link at http://www.ferc.gov. Persons unable to file electronically may mail similar pleadings to the Federal Energy Regulatory Commission, 888 First Street, NE, Washington, DC 20426. Hand delivered submissions in docketed proceedings should be delivered to Health and Human Services, 12225 Wilkins Avenue, Rockville, Maryland 20852.

In addition to publishing the full text of this document in the Federal Register, the Commission provides all interested persons an opportunity to view and/or print the contents of this document via the internet through the Commission’s Home Page (http://ferc.gov) using the “eLibrary” link. Enter the docket number excluding the last three digits in the docket number field to access the document. At this time, the Commission has suspended access to the Commission’s Public Reference Room, due to the proclamation declaring a National Emergency concerning the Novel Coronavirus Disease (COVID–19), issued by the President on March 13, 2020. For assistance, contact the Federal Energy Regulatory Commission at FERCOntlineSupport@ferc.gov, or call toll-free, (888) 208–3676 or TTY, (202) 502–8659.

Comment Date: 5:00 p.m. Eastern Time on May 4, 2021.


Kimberly D. Bose,
Secretary.

[Filing Date: 2021–09833 Filed 5–7–21; 8:45 am]

BILLING CODE 6717–01–P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket Nos. CP15–554–009 and CP15–555–007]

Atlantic Coast Pipeline, LLC; Eastern Gas Transmission and Storage, Inc. Notice of Intent To Prepare a Supplemental Environmental Impact Statement and Notice of Schedule for Environmental Review for the Proposed Atlantic Coast Pipeline Disposition and Restoration Plan And Supply Header Project Restoration Plan

The staff of the Federal Energy Regulatory Commission (FERC or Commission) will prepare a supplemental environmental impact statement (supplemental EIS) that will discuss the environmental impacts resulting from Atlantic Coast Pipeline, LLC’s (Atlantic) Atlantic Coast Pipeline Disposition and Restoration Plan and Eastern Gas Transmission and Storage, Inc.’s (EGTS) ¹ Supply Header Project Restoration Plan.² The Commission will use this supplemental EIS in its decision-making process to determine whether Atlantic’s and EGTS’ proposals are in the public interest.

The National Environmental Policy Act (NEPA) requires the Commission to take into account the environmental impacts that could result from its action whenever it considers whether or not to authorize a project or proposal. NEPA also requires the Commission to discover concerns the public may have about proposed actions. This process is referred to as “scoping.” The main goal of the scoping process is to focus the analysis in the supplemental EIS on the important environmental issues.

On March 2, 2021, the Commission issued a Notice of Amendment of Certificates and Opening of Scoping Period regarding the proposed restoration activities associated with the Atlantic Coast Pipeline (ACP) and Supply Header Project (SHP). That notice opened a public scoping period of 45 days to gather input from the public and interested agencies regarding both projects.

Summary of the Proposed Project Actions

Atlantic requests authorization to implement its strategy for the restoration of ACP project workspaces in compliance with associated permits, authorizations, and legal agreements. For the pipeline, Atlantic proposes to abandon in place all installed pipe (approximately 31.4 miles of the pipeline right-of-way) and restore lands that were cleared and graded (approximately 82.7 miles of the pipeline right-of-way), and seeks exemptions to the restoration of certain lands, to include leaving felled trees in place in areas where trees have not yet been cleared (approximately 25 miles of the pipeline right-of-way). For ACP aboveground facilities, Atlantic proposes to restore the sites, and manage the disposition of the materials and land through an investment recovery process.

EGTS requests authorization to implement its strategy for the restoration of SHP workspaces in compliance with associated permits, authorizations, and legal agreements. EGTS plans to leave in place all previously installed pipe (approximately 11.7 miles) and complete final restoration of approximately 9 miles of the pipeline right-of-way that EGTS has previously cleared and/or graded. EGTS owns the properties on which SHP aboveground facilities are located and proposes to stabilize all facility sites and prepare assets for long term preservation.

The Supplemental EIS Process and Identified Issues

The supplemental EIS will discuss impacts that could occur as a result of the proposed activities related to the disposition of the projects and restoration of the project workspaces. To date, we have identified potential environmental concerns related to Atlantic’s and EGTS’ proposals to leave felled trees in place and abandon installed pipe, and potential impacts on wetlands and waterbodies from restoration activities. As a result, the supplemental EIS will include a reevaluation of mitigation associated with the restoration activities previously analyzed for the construction of the ACP and SHP.³ The supplemental EIS will also consider revisions to land use, air emissions, and noise levels.

Commission staff will also evaluate reasonable alternatives to the proposed project amendments or portions of the proposals and make recommendations on how to lessen or avoid impacts on the various resource areas.

The supplemental EIS will present Commission staff’s independent analysis of the issues. The draft supplemental EIS will be available in electronic format in the public record through eLibrary ⁴ and the Commission’s natural gas environmental documents web page (https://www.ferc.gov/industries-data/natural-gas/environment/environmental-documents). If

² On November 1, 2020, Dominion Energy sold certain companies, including Dominion Energy Transmission, Inc. (the Supply Header Project developer), to Berkshire Hathaway Energy Company; and Dominion Energy Transmission, Inc. changed its name to Eastern Gas Transmission and Storage, Inc.
³ The Atlantic Coast Pipeline Disposition and Restoration Plan and the Supply Header Project Restoration Plan were submitted in response to Commission staff’s October 27, 2020 Data Request and can be found on FERC’s eLibrary at accession numbers 20210104–5278 and 20211120–5241.
⁴ For instructions on connecting to eLibrary, refer to the last page of this notice.
eSubscribed, you will receive instant email notification when the draft supplemental EIS is issued. The draft supplemental EIS will be issued for an allotted public comment period. After the comment period on the draft supplemental EIS, Commission staff will consider all timely comments and revise the document, as necessary, before issuing a final supplemental EIS.

With this notice, the Commission is asking agencies with jurisdiction by law and/or special expertise with respect to the environmental issues of these projects to formally cooperate in the preparation of the supplemental EIS. Agencies that would like to request cooperating agency status should follow the instructions for filing comments provided under the Public Participation section of this notice. The U.S. Forest Service has already agreed to participate as a cooperating agency in the preparation of the supplemental EIS.

Environmental Mailing List

The environmental mailing list includes federal, state, and local government representatives and agencies; elected officials; environmental and public interest groups; Native American Tribes; other interested parties; and local libraries and newspapers. This list also includes all affected landowners (as defined in the Commission’s regulations) for the original ACP and SHP and anyone who submits comments on the project amendments. Commission staff will update the environmental mailing list as the analysis proceeds to ensure that Commission notices related to this environmental review are sent to all individuals, organizations, and government entities interested in and/or potentially affected by the proposed project amendments.

A Notice of Availability of the draft supplemental EIS will be sent to the environmental document list and will provide instructions to access the electronic document on the FERC’s website (www.ferc.gov). If you need to make changes to your name/address, or if you would like to remove your name from the mailing list, please complete one of the following steps:

1. Send an email to GasProjectAddressChange@ferc.gov stating your request. You must include the docket number CP15–554–009 and/or CP15–353–007 in your request. If you are requesting a change to your address, please be sure to include your name and the correct address. If you are requesting to delete your address from the mailing list, please include your name and address as it appeared on this notice. This email address is unable to accept comments.

OR

2. Return the attached “Mailing List Update Form” (appendix 1).6

Schedule for Environmental Review

The Commission’s March 2, 2021 Notice of Amendment for the ACP and SHP alerted other agencies issuing federal authorizations of the requirement to complete all necessary reviews and to reach a final decision on the request for a federal authorization within 90 days of the date of issuance of the Commission staff’s final supplemental EIS for the ACP and SHP. This instant notice identifies the FERC staff’s planned schedule for completion of the final supplemental EIS for the ACP and SHP, which is based on an issuance of the draft supplemental EIS in July 2021. The forecasted schedule for both the draft and final supplemental EIS is based upon Atlantic and EGTS providing complete and timely responses to any future data requests. In addition, the schedule assumes that the cooperating agencies will provide input on their areas of responsibility on a timely basis.

Issuance of Notice of Availability of the final supplemental EIS—November 19, 2021

90-day Federal Authorization Decision Deadline—February 17, 2022

If a schedule change becomes necessary for the final EIS, an additional notice will be provided so that the relevant agencies are kept informed of the Project’s progress.

Additional Information

In order to receive notification of the issuance of the EIS and to keep track of all formal issuances and submittals in specific dockets, the Commission offers a free service called eSubscription. This can reduce the amount of time you spend researching proceedings by automatically providing you with notification of these filings, document summaries, and direct links to the documents. Go to https://www.ferc.gov/erc-online/overview to register for eSubscription.

Additional information about the project amendment is available from the Commission’s Office of External Affairs, at (866) 208–FERC, or on the FERC website at www.ferc.gov using the eLibrary link. Click on the eLibrary link, click on “General Search” and enter the docket number in the “Docket Number” field. Be sure you have selected an appropriate date range. For assistance, please contact FERC Online Support at FercOnlineSupport@ferc.gov or (866) 208–3676, or for TTY, contact (202) 502–8659. The eLibrary link also provides access to the texts of all formal documents issued by the Commission, such as orders, notices, and rulemakings.

Public sessions or site visits will be posted on the Commission’s calendar located at www.ferc.gov/EventCalendar/EventsList.aspx along with other related information.

Kimberly D. Bose,
Secretary.

[FR Doc. 2021–09828 Filed 5–7–21; 8:45 am]
BILLING CODE 6717–01–P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

Combined Notice of Filings

Take notice that the Commission has received the following Natural Gas Pipeline Rate and Refund Report filings:

Docket Numbers: 5/1/2021 to be effective 5/1/2021.

Applicants: Dominion Energy Cove Point LNG, L.P.


Filed Date: 5/1/2021.

Accession Number: 20210503–5030.

Comments Due: 5 p.m. ET 5/17/21.


Applicants: Equitrans, L.P.

Description: § 4(d) Rate Filing: Negotiated Rate Capacity Release Agreements—5/1/2021 to be effective 5/1/2021.

Filed Date: 5/1/2021.

Accession Number: 20210503–5030.

Comments Due: 5 p.m. ET 5/17/21.


Applicants: Rover Pipeline LLC.

Description: § 4(d) Rate Filing: Summary of Negotiated Rate Capacity Release Agreements on 5–3–21 to be effective 5/1/2021.

Filed Date: 5/3/21.

Accession Number: 20210503–5034.

Comments Due: 5 p.m. ET 5/17/21.


Applicants: Eastern Shore Natural Gas Company.

5 The Council on Environmental Quality regulations addressing cooperating agency responsibilities are at Title 40, Code of Federal Regulations, Part 1501.4.

6 The appendices referenced in this notice will not appear in the Federal Register. Copies of appendices were sent to all those receiving this notice in the mail and are available at www.ferc.gov using the link called “eLibrary” or from the Commission’s Public Reference Room, 888 First Street NE, Washington, DC 20426, or call (202) 502–8371. For instructions on connecting to eLibrary, refer to the last page of this notice.
DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. EL21–70–000]


The Complainant certify that copies of the complaint were served on the contacts listed for Respondent in the Commission’s list of Corporate Officials.

Any person desiring to intervene or to protest this filing must file in accordance with Rules 211 and 214 of the Commission’s Rules of Practice and Procedure (18 CFR 385.211, 385.214). Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a notice of intervention or motion to intervene, as appropriate. The Respondent’s answer and all interventions, or protests must be filed on or before the comment date. The Respondents’ answer, motions to intervene, and protests must be served on the Complainant.

The Commission strongly encourages electronic filings of comments, protests and interventions in lieu of paper using the “eFiling” link at http://www.ferc.gov. Persons unable to file electronically may mail similar pleadings to the Federal Energy Regulatory Commission, 888 First Street NE, Washington, DC 20426. Hand delivered submissions in docketed proceedings should be delivered to Health and Human Services, 12225 Wilkins Avenue, Rockville, Maryland 20852.

In addition to publishing the full text of this document in the Federal Register, the Commission provides all interested persons an opportunity to view and/or print the contents of this document via the internet through the Commission’s Home Page (http://ferc.gov) using the “eLibrary” link. Enter the docket number excluding the last three digits in the docket number field to access the document. At this time, the Commission has suspended access to the Commission’s Public Reference Room, due to the proclamation declaring a National Emergency concerning the Novel Coronavirus Disease (COVID–19), issued by the President on March 13, 2020. For assistance, contact the Federal Energy Regulatory Commission at FERCOnlineSupport@ferc.gov, or call toll-free, (888) 208–3676 or TTY, (202) 502–8659.

Comment Date: 5:00 p.m. Eastern Time on May 20, 2021.


Kimberly D. Bose,
Secretary.

BILLING CODE 6717–01–P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

Combined Notice of Filings #1

Take notice that the Commission received the following electric corporate filings:

Docket Numbers: EC21–86–000.

Applicants: Alta Wind VIII, LLC, Granite Reliable Power, LLC, Windstar Energy LLC, Tusk Wind Holdings, LLC, Tusk Wind Holdings II, LLC, Tusk Wind Holdings III, LLC, Next Era Energy Partners, LP.


Filed Date: 5/3/21.

Accession Number: 20210503–5292.

Comments Due: 5 p.m. ET 5/24/21.

Take notice that the Commission received the following exempt wholesale generator filings:

Docket Numbers: EG21–137–000.

Applicants: Rayos del Sol Solar Project, LLC.

Description: Notice of Self Certification of Exempt Wholesale
Generator Status of Rayos del Sol Solar Project, LLC.

Filed Date: 5/3/21.
Accession Number: 20210503–5127.
Comments Due: 5 p.m. ET 5/24/21.
Applicants: Guernsey Power Station LLC.
Description: Notice of Self-Certification of Exempt Wholesale Generator Status of Guernsey Power Station LLC.

Filed Date: 5/3/21.
Accession Number: 20210503–5276.
Comments Due: 5 p.m. ET 5/24/21.
Docket Numbers: EG21–139–000.
Applicants: Stony Creek Energy LLC.
Description: Notice of Self-Certification of Exempt Wholesale Generator Status of Stony Creek Energy LLC.

Filed Date: 5/4/21.
Accession Number: 20210504–5153.
Comments Due: 5 p.m. ET 5/25/21.
Take notice that the Commission received the following electric rate filings:


Filed Date: 5/3/21.
Accession Number: 20210503–5124.
Comments Due: 5 p.m. ET 5/24/21.
Applicants: Allegheny Ridge Wind Farm, LLC, Goshen Phase II LLC, Blue Canyon Windpower LLC, High Prairie Wind Farm II, LLC, Old Trail Wind Farm, LLC, Aragone Wind LLC, Buena Vista Energy, LLC, Caprock Wind LLC, Cedar Creek Wind Energy, LLC, Crescent Ridge LLC, GSG, LLC, Kumoyaay Wind LLC, Mendota Hills, LLC, Midland Cogeneration Venture Limited Partnership, Bruce Power Inc., Rockland Wind Farm LLC, Puget Sound Energy, Inc., Telocast Wind Power Partners, LLC, Mountain Breeze Wind, LLC, Lone Tree Wind, LLC.
Description: Notice of Non-Material Change in Status of Allegheny Ridge Wind Farm, LLC.

Filed Date: 4/30/21.
Accession Number: 20210430–5750.
Comments Due: 5 p.m. ET 5/21/21.
Applicants: Tri-State Generation and Transmission Association, Inc.
Description: Notice of Non-Material Change in Status of Tri-State Generation and Transmission Association, Inc.

Filed Date: 5/3/21.
Accession Number: 20210503–5101.
Comments Due: 5 p.m. ET 5/24/21.
Docket Numbers: ER21–1778–000; TS21–2–000.
Applicants: Guernsey Power Station, LLC.
Description: Request of Guernsey Power Station LLC for Temporary Waivers under Section 35.28 of the Commission’s Regulations.

Filed Date: 4/27/21.
Accession Number: 20210427–5245.
Comments Due: 5 p.m. ET 5/18/21.
Applicants: St. Joseph Phase II, LLC.
Description: Request for Prospective Tariff Waiver, et al. of St. Joseph Phase II, LLC.

Filed Date: 4/30/21.
Accession Number: 20210430–5609.
Comments Due: 5 p.m. ET 5/21/21.
Applicants: PJM Interconnection, L.L.C.
Description: § 205(d) Rate Filing: Original ISA, SA No. 6024 and Original ICSA, SA No. 6025; Queue No. AB2–135 to be effective 4/5/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5123.
Comments Due: 5 p.m. ET 5/25/21.
Docket Numbers: ER21–1840–000.
Applicants: Lookout Solar Park I, LLC.
Description: § 205(d) Rate Filing: Original WMPA, Service Agreement No. 6062; Queue No. AG1–253 to be effective 4/6/2021.

Filed Date: 5/4/21.
Accession Number: 20210503–5010.
Comments Due: 5 p.m. ET 5/25/21.
Docket Numbers: ER21–1834–000.
Applicants: PJM Interconnection, L.L.C.
Description: § 205(d) Rate Filing: Original WMPA, Service Agreement No. 6026; Queue No. AG1–253 to be effective 4/6/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5026.
Comments Due: 5 p.m. ET 5/25/21.
Docket Numbers: ER21–1835–000.
Applicants: Public Service Company of Colorado
Description: § 205(d) Rate Filing: 2021–05–04 PSC–MEAN–GlndwSpngs–CardnellISS–COM–583–0.0.0 to be effective 7/3/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5038.
Comments Due: 5 p.m. ET 5/25/21.
Applicants: AEP Texas Inc.
Description: § 205(d) Rate Filing: AEP-TX-King Creek Wind Farm 1 (Apogee) 1st AtR GIA to be effective 4/29/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5065.
Comments Due: 5 p.m. ET 5/25/21.
Applicants: PJM Interconnection, L.L.C.
Description: § 205(d) Rate Filing: Original WMPA, SA No. 6022; Queue No. AB1–176 to be effective 4/5/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5113.
Comments Due: 5 p.m. ET 5/25/21.
Docket Numbers: ER21–1839–000.
Applicants: Orangeville Energy Storage LLC.
Description: Initial rate filing: Filing of Assignment, Co-Tenancy, and Shared Facilities Agreement to be effective 6/7/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5125.
Comments Due: 5 p.m. ET 5/25/21.
Docket Numbers: ER21–1841–000.
Applicants: Lookout Solar Park I, LLC.
Description: Request for Limited Waiver of Tariff Provision, et al. of Lookout Solar Park I, LLC.

Filed Date: 5/4/21.
Accession Number: 20210503–5141.
Comments Due: 5 p.m. ET 5/18/21.
Applicants: Richland Interconnection, LLC.
Description: Baseline eTariff Filing: Richland Interconnection SFA Filing to be effective 5/5/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5144.
Comments Due: 5 p.m. ET 5/25/21.
Applicants: PJM Interconnection, L.L.C.
Description: § 205(d) Rate Filing: Original WMPA, SA No. 6023; Queue No. AE1–109 to be effective 4/6/2021.

Filed Date: 5/4/21.
Accession Number: 20210504–5149.
Comments Due: 5 p.m. ET 5/25/21.
ENVIRONMENTAL PROTECTION AGENCY


Agency Information Collection Activities; Renewal Request Submitted to OMB for Review and Approval; Comment Request; Notice of Supplemental Distribution of a Registered Pesticide Product (Renewal)

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: The Environmental Protection Agency (EPA) has submitted an information collection request (ICR), Notice of Supplemental Distribution of a Registered Pesticide Product (EPA ICR Number 0278.13, OMB Control Number 2070-0044) to the Office of Management and Budget (OMB) for review and approval in accordance with the Paperwork Reduction Act. This is a proposed extension of the ICR, which is currently approved through February 28, 2021. EPA previously provided a 60-day public review opportunity via the Federal Register on August 17, 2020. With this submission, EPA is providing an additional 30-days for public review. A fuller description of the ICR is given below, including its estimated burden and cost to the public. An Agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number.

DATES: Comments must be received on or before June 9, 2021.

ADDRESSES: Submit your comments to EPA referencing Docket ID No. EPA–HQ–OPP–2016–0108, online using www.regulations.gov (our preferred method), or by mail to: EPA Docket Center, Environmental Protection Agency, Mail Code 28221T, 1200 Pennsylvania Ave. NW, Washington, DC 20460. EPA’s policy is that all comments received will be included in the public docket without change including any personal information provided, unless the comment includes profanity, threats, information claimed to be Confidential Business Information (CBI), or other information whose disclosure is restricted by statute. Submit written comments and recommendations to OMB for the proposed information collection within 30 days of publication of this notice to www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function.

FOR FURTHER INFORMATION CONTACT: Carolyn Siu, Mission Support Division (7101M), Office of Program Support, Environmental Protection Agency, 1200 Pennsylvania Ave. NW, Washington, DC 20460; telephone number: (703) 347–0159; email address: siu.carolyn@epa.gov.

SUPPLEMENTARY INFORMATION: Supporting documents, including the ICR that explains in detail the information collection activities and the related burden and cost estimates that are summarized in this document, are available in the docket for this ICR. The docket can be viewed online at www.regulations.gov or in person at the EPA Docket Center, WJC West Room. 3334, 1301 Constitution Ave NW, Washington, DC. The telephone number for the Docket Center is (202) 566–1744. For additional information about EPA’s public docket, visit http://www.epa.gov/dockets.

Abstract: This information collection activity notifies the EPA of supplemental distribution of registered pesticide products. As mandated by FIFRA, as amended, EPA is responsible for the regulation of pesticides. FIFRA section 3(e) (7 U.S.C. 136a(e)) allows pesticide products with the same formulation, label claims, and manufacturer as a registered product to be distributed under the same registration as the basic product. Pesticide registrants may distribute or sell registered pesticides under a different product name in addition to the registered name, or under a different entity’s name and address. Such distribution and sale are termed “supplemental distribution” and the product is termed a “distributor product.” EPA requires pesticide registrants who enter into supplemental distribution agreements with other companies to submit EPA Form 8570–5, Notice of Supplemental Distribution of a Registered Pesticide Product. Supplemental registrations are only an extension of a currently federally registered pesticide product.

Form Number: 8570–5.

Respondents/Affected Entities: Pesticide and other agricultural chemical manufacturing.

Respondent’s obligation to respond: Mandatory pursuant to Section 3(e) of FIFRA, as amended. Regulations pertaining to supplemental distribution of pesticide products are contained in Title 40 CFR part 152.132.

Estimated number of respondents: 1,885 (total).

Frequency of response: On occasion.

Total estimated burden: 603 hours (per year). Burden is defined at 5 CFR 1320.09(b).

Total estimated costs: $54,463 (per year), includes $0 annualized capital or operation & maintenance costs.

Changes in the estimates: There are no changes in the estimated respondent burden compared with that identified in the ICR currently approved by OMB.

Courtney Kerwin,
Director, Regulatory Support Division.

[FR Doc. 2021–09795 Filed 5–7–21; 8:45 am]
ENVELOPMENTAL PROTECTION AGENCY


Information Collection Request Submitted to OMB for Review and Approval; Comment Request; NESHAP for Shipbuilding and Ship Repair Facilities—Surface Coating (Renewal)

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: The Environmental Protection Agency (EPA) has submitted an information collection request (ICR), NESHAP for Shipbuilding and Ship Repair Facilities—Surface Coating (EPA ICR Number 1712.11, OMB Control Number 2060–0330), to the Office of Management and Budget (OMB) for review and approval in accordance with the Paperwork Reduction Act. This is a proposed extension of the ICR, which is currently approved through May 31, 2021. Public comments were previously requested, via the Federal Register, on May 12, 2020 during a 60-day comment period. This notice allows for an additional 30 days for public comments. A fuller description of the ICR is given below, including its estimated burden and cost to the public. An agency may neither conduct nor sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

DATES: Additional comments may be submitted on or before June 9, 2021.

ADDRESSES: Submit your comments, referencing Docket ID Number EPA–HQ–OECA–2014–0056, online using www.regulations.gov (our preferred method), or by email to dockets.oeca@epa.gov, or by mail to: EPA Docket Center, Environmental Protection Agency, Mail Code 28221T, 1200 Pennsylvania Ave. NW, Washington, DC 20460. It is EPA policy that all comments received will be included in the public docket without change, including any personal information provided, unless the comment includes profanity, threats, information claimed to be Confidential Business Information (CBI), or other information whose disclosure is restricted by statute. Submit written comments and recommendations to OMB for the proposed information collection within 30 days of publication of this notice to www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function.

FOR FURTHER INFORMATION CONTACT: Patrick Yellin, Monitoring, Assistance, and Media Programs Division, Office of Compliance, Mail Code 2227A, Environmental Protection Agency, 1200 Pennsylvania Ave. NW, Washington, DC 20460; telephone number: (202) 564–2970; fax number: (202) 564–0050; email address: yellin.patrick@epa.gov.

SUPPLEMENTARY INFORMATION: Supporting documents, which explain in detail the information that the EPA will be collecting, are available in the public docket for this ICR. The docket can be viewed online at www.regulations.gov, or in person at the EPA Docket Center, WJC West Room 3334, 1301 Constitution Ave. NW, Washington, DC. The telephone number for the Docket Center is 202–566–1744. For additional information about EPA’s public docket, visit: http://www.epa.gov/dockets.

Abstract: The National Emission Standards for Hazardous Air Pollutants (NESHAP) for Shipbuilding and Ship Repair Facilities—Surface Coating applies to owners or operators of shipbuilding and ship repair facilities with primer and top-coat applications in manufacturing processes and in ship repair processes. Owners or operators of shipbuilding and ship repair facilities are required to report startup, initial performance test, and retest information. Facilities will also periodically report emission exceedances, changes to equipment, and comply with other requirements of the NESHAP. This information is being collected to assure compliance with 40 CFR part 63, subpart II.

Form Numbers: None.

Respondents/affected entities: Owners or operators of shipbuilding and ship repair surface coating facilities.

Respondent’s obligation to respond: Mandatory (40 CFR part 63, subpart II).

Estimated number of respondents: 56 (total).

Frequency of response: Semiannual.

Total estimated burden: 28,700 hours (per year), ‘Burden’ is defined at 5 CFR 1320.3(b).

Total estimated cost: $3,200,000 (per year), includes $0 in annualized capital/start up and/or operation & maintenance costs.

Changes in the Estimates: There is no change in burden on the respondents from the most-recently approved ICR as currently identified in the OMB Inventory of Approved Burdens. This is due to two considerations: (1) The regulations have not changed over the past three years and are not anticipated to change over the next three years; and (2) the growth rate for this industry is very low or non-existent, so there is no significant change in the overall burden. Since there are no changes in the regulatory requirements and there is no significant industry growth, there are also no changes in the capital/startup or operation and maintenance (O&M) costs. There is a decrease in the reported hour burden due to a correction. The previous ICR incorrect included burden for federal facilities, which has been removed in this request.

Courtney Kerwin,
Director, Regulatory Support Division.

[PR Doc. 2021–09791 Filed 5–7–21; 8:45 am]

BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

[FRL–10022–14–Region 3]

Draft TMDL for Sediment in the Indian Creek Watershed in Montgomery County, Pennsylvania

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice; request for public comment.

SUMMARY: The Environmental Protection Agency (EPA) is publishing for public review and comment a draft total maximum daily load (TMDL) for sediment in the Indian Creek Watershed in Montgomery County, Pennsylvania pursuant to Section 303(d) of the Clean Water Act. To assist the public in their understanding of the draft TMDL and provide an overview of the TMDL process, EPA invites the public to attend a virtual public meeting. Section 303(d) of the Clean Water Act requires that each state identify those waters (called “water quality-limited segments”) for which existing technology-based pollution controls are not stringent enough to attain or maintain state water quality standards and for which total maximum daily loads (TMDLs) must be developed. A TMDL establishes a target for the total load of a particular pollutant that a waterbody can assimilate without exceeding water quality standards and divides that load into wastewater allocations, given to point sources, load allocations, given to nonpoint sources and natural background, and a margin of safety, which takes into account any uncertainty. TMDLs provide a framework to achieve water quality standards in a watershed and inform other federal and state programs of the necessary pollutant reductions needed.
by sources to achieve those standards. The draft TMDL report and information pertaining to the virtual public meeting is available from EPA Region 3’s website at: https://www.epa.gov/tmdl/revised-sediment-tmdl-indian-creek-watershed-montgomery-county-pennsylvania.

DATES: Comments must be received on or before June 24, 2021. The public is welcomed to attend a virtual public meeting on June 8, 2021 from 1–2:30 p.m.

ADDRESSES: Comments on the draft TMDL must be received in writing and sent by electronic mail to Ms. Jillian Adair at adair.jillian@epa.gov or by mail to Ms. Jillian Adair, Water Division (3WD42), U.S. Environmental Protection Agency Region 3, 1650 Arch Street, Philadelphia, PA 19103–2029. Electronic mail submissions including body text and attachments are limited to 25 megabytes. In addition, EPA cannot receive electronic mail attachments in ZIP format (.zip). To attend the virtual public meeting, please use the weblink or conference line phone number provided at the above weblink in the SUMMARY.

FOR FURTHER INFORMATION CONTACT: Jillian Adair at adair.jillian@epa.gov or (215) 814–5713.

SUPPLEMENTARY INFORMATION: On June 30, 2008, EPA established a sediment TMDL for the Indian Creek Watershed. On October 17, 2011 a complaint was filed against EPA regarding the TMDL [Civil Action No. 2:11–cv–06489–CDJ (E.D.PA)]. EPA then agreed to reconsider the TMDL and investigate several concerns raised by the plaintiffs. On March 21, 2014, EPA issued a reconsideration document, which identified certain concerns that the reference watershed approach and sediment loading rates used should be revisited. The court granted EPA’s request for a voluntary remand of the 2008 sediment TMDL on April 3, 2014. EPA subsequently solicited input to seek relevant data and feedback, including four stakeholder meetings from 2014 to 2018 as part of its efforts to develop a revised draft sediment TMDL. EPA considered the information and data that were submitted by various stakeholders as part of the TMDL development effort. That information can also be accessed at the above weblink in the SUMMARY.

Leslie Gillespie-Marthaler, Deputy Director, Water Division, Region III. [FR Doc. 2021–00762 Filed 5–7–21; 8:45 am]

BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY


Information Collection Request Submitted to OMB for Review and Approval; Comment Request: Ethylene Oxide Commercial Sterilization Facilities National Emission Standards for Hazardous Air Pollutants (NESHAP) Technology Review

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: The U.S. Environmental Protection Agency (EPA) has submitted an information collection request (ICR), Ethylene Oxide Commercial Sterilization Facilities National Emission Standards for Hazardous Air Pollutants (NESHAP) Technology Review (EPA ICR Number 2623.01, OMB Control Number 2060–NEW), to the Office of Management and Budget (OMB) for review and approval in accordance with the Paperwork Reduction Act (PRA). This is a request for approval of a new collection. Public comments were previously requested via the Federal Register on June 12, 2020, during a 60-day comment period. This notice allows for an additional 30 days for public comments. A complete description of the ICR is provided below, including its estimated burden and cost to the public. An Agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number.

DATES: Additional comments may be submitted on or before June 9, 2021.

ADDRESSES: Submit your comments to EPA, referencing Docket ID No. EPA–HQ–OAR–2019–0178, online using www.regulations.gov (our preferred method), by email to a-and-r-docket@epa.gov, or by mail to: EPA Docket Center, Environmental Protection Agency, Mail Code 28221T, 1200 Pennsylvania Ave. NW, Washington, DC 20460. EPA’s policy is that all comments received will be included in the public docket without change including any personal information provided, unless the comment includes profanity, threats, information claimed to be Confidential Business Information (CBI), or other information whose disclosure is restricted by statute. Submit written comments and recommendations to OMB for the proposed information collection within 30 days of publication of this notice to www.reginfo.gov/public/do/PRAMain.

Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function.

FOR FURTHER INFORMATION CONTACT: Mr. Matthew Witosky, Sector Policies and Programs Division (E143–05), U.S. Environmental Protection Agency, Research Triangle Park, NC 27711; telephone number: (919) 541–2865; email address: witosky.matthew@epa.gov.

SUPPLEMENTARY INFORMATION: Supporting documents explaining in detail the information that the EPA will be collecting are available in the public docket for this ICR. The docket can be viewed online at https://www.regulations.gov/. The telephone number for the Docket Center is (202) 566–1742. For additional information about EPA’s Docket Center services and the current status, please visit us online at https://www.epa.gov/dockets.

Abstract: The NESHAP for EIO Commercial Sterilization and Fumigation Operations were finalized in December 1994 at 40 CFR part 63, subpart O. The NESHAP establishes emission standards for both major and area sources that use at least 1 ton of EIO in sterilization or fumigation operations in any 12-month period. The standards require existing and new major sources to control emissions to the level achievable by the maximum achievable control technology and require existing and new area sources to control emissions using generally available control technology. The EPA completed a residual risk and technology review for the NESHAP in 2006 and, at that time, concluded that the risk under existing standards were acceptable and provided an ample margin of safety. More recently, in 2016, the EPA released its updated Integrated Risk Information System unit risk estimate for EIO, which indicated that cancer risks from EIO were significantly higher than previously understood. Subsequently, the National Air Toxics Assessment (NATA) released in August 2018, identified EIO emissions as an important risk driver in several areas across the country. Further investigation revealed the EIO Commercial Sterilization source category contributes to some of these risks, which has led the EPA to evaluate, in greater depth, potential options to reduce EIO emissions through potential rule revisions and more immediate emission...
Changes in the estimates: This is a new collection. Therefore, there is no change in burden.

Courtney Kerwin, Director, Regulatory Support Division.
[FR Doc. 2021–09794 Filed 5–7–21; 8:45 am]
BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY
[FRL–10023–47–Region 9]
Public Water System Supervision Program Revision for the State of Nevada

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of tentative approval.

SUMMARY: Notice is hereby given that the State of Nevada (State) revised its approved Public Water System Supervision (PWSS) Program under the federal Safe Drinking Water Act (SDWA) by incorporating by reference the federal Arsenic Rule The Environmental Protection Agency (EPA) has determined that the State’s revisions are no less stringent than the corresponding Federal regulations and otherwise meet applicable SDWA primacy requirements. Therefore, EPA intends to approve the stated revisions to the State’s PWSS Program.

DATES: A request for a public hearing must be received on or before June 9, 2021.

ADDRESSES: All documents relating to this determination are available for inspection online at http://ndep.nv.gov/posts. In addition, documents relating to this determination are available for inspection by appointment between the hours of 8:30 a.m. and 4:00 p.m., Monday through Friday, except official State or Federal holidays at the following address: Nevada Department of Environmental Protection, Administration Office, 901 South Stewart Street, Suite 4001, Carson City, NV 89701. Please contact the Bureau of Safe Drinking Water at (775) 687–9521 to schedule an appointment.

FOR FURTHER INFORMATION CONTACT: Jacob Jenzen, United States Environmental Protection Agency, Region 9, Drinking Water Section, via telephone number: (415) 972–3570 or email address: Jenzen.Jacob@epa.gov.

SUPPLEMENTARY INFORMATION:
Background. EPA approved the State’s initial application for PWSS Program primary enforcement authority (“primacy”) on February 27, 1978 (43 FR 8030). Since initial approval, EPA has approved various revisions to Nevada’s PWSS Program. For the revisions covered by this action, EPA revised the Arsenic Rule on January 22, 2001 (66 FR 6976). The revisions included a more stringent federal standard for arsenic in drinking water from 0.050 mg/L to 0.010 mg/L to better protect public health. The State submitted its final application to add the Arsenic Rule to its approved PWSS Program on December 30, 2011, followed by an application supplement on February 11, 2021. EPA has determined that the Arsenic Rule was incorporated by reference into the Nevada Administrative Code (NAC), Title 40 Chapter 445A, in a manner that Nevada’s regulations are comparable to and no less stringent than the federal requirements. EPA has also determined that State’s primacy revision meets all of the regulatory requirements for approval, as set forth in 40 CFR 142.12, including a side-by-side comparison of the Federal requirements and the corresponding State authorities, additional materials to support special primacy requirements of 40 CFR 142.16, and a statement by the Nevada Attorney General certifying that Nevada’s laws and regulations adopted by the State to carry out the program revisions were duly adopted and are enforceable. Therefore, EPA intends to approve the State’s revisions as part of its PWSS Program.

Public Process. Any interested party may request a public hearing on this determination. A request for a public hearing must be received or postmarked by June 9, 2021, and addressed to the Regional Administrator at the EPA Region 9, via the following email address: R9dw-program@epa.gov. Please note, “State Primacy Rule Determination” in the subject line of the email. The Regional Administrator may deny frivolous or insubstantial requests for a hearing. If a substantial request for a public hearing is made by June 9, 2021, EPA Region 9 will hold a public hearing. Any request for a public hearing shall include the following information: 1. The name, address, and telephone number of the individual, organization, or other entity requesting a hearing; 2. A brief statement of the requesting person’s interest in the Regional Administrator’s determination and a brief statement of the information that the requesting person intends to submit at such hearing; and 3. The signature of the individual making the request, or, if the request is made on behalf of an organization or other entity, the signature of a responsible official of the organization or other entity.
ENVIRONMENTAL PROTECTION AGENCY
[FR–L–10022–08–OMS]

Cross-Media Electronic Reporting: Authorized Program Revision Approval, State of New Hampshire

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: This notice announces the Environmental Protection Agency’s (EPA) approval of the State of New Hampshire’s request to revise/modify certain of its EPA-approved programs to allow electronic reporting.

DATES: EPA approves the authorized program revisions/modifications as of May 10, 2021.

FOR FURTHER INFORMATION CONTACT: Shirley M. Miller, CROMERR Program Manager, U.S. Environmental Protection Agency, Office of Information Management, Mail Stop 2824T, 1200 Pennsylvania Avenue NW, Washington, DC 20460, (202) 566–2908, miller.shirley@epa.gov.

SUPPLEMENTARY INFORMATION: On October 13, 2005, the final Cross-Media Electronic Reporting Rule (CROMERR) was published in the Federal Register (70 FR 59848) and codified as part 3 of Title 40 of the CFR. CROMERR establishes electronic reporting as an acceptable regulatory alternative to paper reporting and establishes requirements to assure that electronic documents are as legally dependable as their paper counterparts. Subpart D of CROMERR requires that state, tribal or local government agencies that receive, or wish to begin receiving, electronic reports under their EPA-approved programs must apply to EPA for a revision or modification of those programs and obtain EPA approval.

Subpart D provides standards for such approvals based on consideration of the electronic document receiving systems that the state, tribe, or local government will use to implement the electronic reporting. Additionally, § 3.1000(b) through (e) of 40 CFR part 3, subpart D provides special procedures for program revisions and modifications to allow electronic reporting, to be used at the option of the state, tribe or local government in place of procedures available under existing programs-specific authorization regulations. An application submitted under the subpart D procedures must show that the state, tribe or local government has sufficient legal authority to implement the electronic reporting components of the programs covered by the application and will use electronic document receiving systems that meet the applicable subpart D requirements.

On September 17, 2020, the New Hampshire Department of Environmental Services (NHDES) submitted two applications titled NH Online Forms (nForm) and State and Local Emissions Inventory System (SLEIS) for revisions/modifications to its EPA-approved programs under title 40 CFR to allow new electronic reporting. EPA reviewed NHDES’s request to revise/modify its EPA-approved programs and, based on this review, EPA determined that the applications met the standards for approval of authorized program revisions/modifications set out in 40 CFR part 3, subpart D. In accordance with 40 CFR 3.1000(d), this notice of EPA’s decision to approve New Hampshire’s request to revise/modify its following EPA-approved programs to allow electronic reporting under 40 CFR parts 52, 60, 62, 63, 70, 142, 145, 239, 271, 281, and 763 to allow electronic reporting under 40 CFR parts 50–52, 60–65, 70, 141, 144, 146, 240–259, 260–270, 272–280 and 763 is being published in the Federal Register:

Part 52: Approval and Promulgation of Implementation Plans (SIP/Clean Air Act Title II) Reporting under CFR 50–52

Part 60: Standards of Performance for New Stationary Sources (NSPS/CAR/Clean Air Act Title III) Reporting under CFR 60

Part 62: Approval and Promulgation of State Plans for Designated Facilities and Pollutants (NSPS/Clean Air Act Title III—Hospital/Medical) Reporting under CFR 62

Part 63: National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP MACT/Clean Air Act Title III) Reporting under CFR 61, 63 & 65

Part 70: State Operating Permit Programs (Clean Air Act Title V) Reporting under CFR 64 & 70

Part 142: National Primary Drinking Water Regulations Implementation (NPDWR) Reporting under CFR 141

Part 145: State Underground Injection Control Programs (UIC) Reporting under CFR 144 & 146

Part 239: Requirements for State Permit Program Determination of Adequacy (RCRA Subtitle C) Reporting under CFR 240–259


Part 281: Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST) Reporting under CFR 280

Part 763: Asbestos Reporting under CFR 763NHDES was notified of EPA’s determination to approve its application with respect to the authorized programs listed above.

Also, in this notice, EPA is informing interested persons that they may request a public hearing on EPA’s action to approve the State of New Hampshire’s request to revise its authorized public water system program under 40 CFR part 142, in accordance with 40 CFR 3.1000(f). Requests for a hearing must be submitted to EPA within 30 days of publication of this Federal Register notice. Such requests should include the following information:

(1) The name, address and telephone number of the individual, organization or other entity requesting a hearing;

(2) A brief statement of the requesting person’s interest in EPA’s determination, a brief explanation as to why EPA should hold a hearing, and any other information that the requesting person wants EPA to consider when determining whether to grant the request;

(3) The signature of the individual making the request, or, if the request is made on behalf of an organization or other entity, the signature of a responsible official of the organization or other entity.

In the event a hearing is requested and granted, EPA will provide notice of the hearing in the Federal Register not less than 15 days prior to the scheduled hearing date. Frivolous or insubstantial requests for hearing may be denied by EPA. Following such a public hearing, EPA will review the record of the hearing and issue an order either affirming this determination or rescinding such determination. If no timely request for a hearing is received and granted, EPA’s approval of the State
The Receiver has further irrevocably authorized and appointed FDIC-Corporate as its attorney-in-fact to execute and file any and all documents that may be required to be executed by the Receiver which FDIC-Corporate, in its sole discretion, deems necessary, including but not limited to releases, discharges, satisfactions, endorsements, assignments, and deeds. Effective on the termination dates listed above, the Receiverships have been terminated, the Receiver has been discharged, and the Receiverships have ceased to exist as legal entities.

(Authority: 12 U.S.C. 1819)

Federal Deposit Insurance Corporation.

Dated at Washington, DC, on May 5, 2021.

Debra A. Decker,
Deputy Executive Secretary.

[FR Doc. 2021–09868 Filed 5–7–21; 8:45 am]

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

Conditional Sailing Order Technical Instructions and Operations Manual

AGENCY: Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS).

ACTION: Notice.

SUMMARY: The Centers for Disease Control and Prevention (CDC), within the Department of Health and Human Services (HHS), announces the availability of additional technical instructions and documents released under its Framework for Conditional Sailing Order (CSO). These documents apply to cruise ship operators with cruise ships operating in U.S. waters and cruise ship operators who are operating cruise ships outside of U.S. waters, but intend for their cruise ships to return to operating in U.S. waters while CDC’s Conditional Sailing Order remains in effect.

DATES: These documents were available April 2, 2021 and May 5, 2021.

FOR FURTHER INFORMATION CONTACT: Jennifer Buigut, Division of Global Migration and Quarantine, Centers for Disease Control and Prevention, 1600 Clifton Road NE, MS H16–4, Atlanta, GA 30329. Phone: 404–498–1600. Email: dgmqpolicyoffice@cdc.gov.

SUPPLEMENTARY INFORMATION: On October 30, 2020 CDC issued an Agency Order establishing a framework for a phased approach to resuming cruise ship passenger operations in U.S. waters (85 FR 70153). The phased approach includes: (1) Establishment of laboratory testing of crew onboard cruise ships in U.S. waters; (2) simulated voyages designed to test a cruise ship operators’ ability to mitigate COVID–19 onboard cruise ships; (3) a certification process; and (4) a return to passenger voyages in a manner that mitigates the risk of COVID–19 introduction, transmission, or spread among passengers and crew onboard ships and ashore to communities.

In the initial crew testing phase, the Order additionally contained requirements for: (1) Shoreside COVID–19 laboratory screening testing of all crew currently onboard cruise ships; (2) onboard diagnostic testing capabilities for symptomatic travelers (crew and future passengers); (3) shoreside COVID–19 laboratory screening testing of all newly embarking crew; and (4) continued compliance with complete, accurate, and acknowledged, No Sail Order Response Plans.

On April 2, 2021 CDC released Phase 2A Technical Instructions. Phase 2A Technical Instructions assists cruise ship operators in documenting the approval of U.S. port and local health authorities as a condition of receiving or retaining controlled free pratique to conduct a simulated voyage or to obtain a COVID–19 Conditional Sailing Certificate to commence restricted passenger voyages. This includes documenting the approval of U.S. port and local health authorities in developing medical care, housing, and port components (including a vaccination component).


The Technical Instructions for Simulated Voyages provides technical instructions for Phase 2B of CDC’s CSO
for cruise ship operators to test the efficacy of their health and safety protocols in U.S. waters. In lieu of conducting a simulated voyage, a cruise ship operator’s responsible officials, at their discretion, may sign and submit to CDC an attestation under 18 U.S.C. 1001 that 98 percent of crew are fully vaccinated and submit to CDC a clear and specific vaccination plan and timeline to limit cruise ship sailings to 95 percent of passengers who have been verified by the cruise ship operator as fully vaccinated prior to sailing.

CDC’s oversight and inspection of cruise ships during simulated and restricted passenger voyages will be based on the Operations Manual. The findings and/or observations of these inspections will be shared with the cruise ship operator. Cruise ship operators are expected to align their health and safety protocols with any CDC findings and observations. Such findings and observations must also be incorporated into the cruise ship operator’s simulated voyage after-action report or as a condition of applying for and retaining permission to conduct restricted passenger voyages. Based on these inspections, CDC may also issue additional recommendations to the cruise ship operator that the operator should consider for adoption into their health and safety protocols as best practices.


Sherri Berger,
Acting Chief of Staff, Centers for Disease Control and Prevention.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
(Docket No. CDC–2021–0049)

Advisory Committee on Immunization Practices (ACIP)

AGENCY: Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS).

ACTION: Notice of meeting and request for comment.

SUMMARY: In accordance with the Federal Advisory Committee Act, the Centers for Disease Control and Prevention (CDC), announces the following meeting of the Advisory Committee on Immunization Practices (ACIP). This meeting is open to the public. The meeting will be webcast live via the World Wide Web.

DATES: The meeting will be held on May 12, 2021, from 11:00 a.m. to 5:00 p.m., EDT (dates and times subject to change, see the ACIP website for updates: http://www.cdc.gov/vaccines/acip/index.html). The public may submit comments from May 10, 2021 through May 12, 2021.

ADDRESSES: For more information on ACIP please visit the ACIP website: http://www.cdc.gov/vaccines/acip/index.html. You may submit comments, identified by Docket No. CDC–2021–0049 by any of the following methods:

• Federal eRulemaking Portal: https://www.regulations.gov. Follow the instructions for submitting comments.
• Mail: Centers for Disease Control and Prevention, 1600 Clifton Road NE, MS–H24–8, Atlanta, GA 30329–4027, Attn: May 12, 2021 ACIP Meeting. Instructions: All submissions received must include the Agency name and Docket Number. All relevant comments received in conformance with the https://www.regulations.gov suitability policy will be posted without change to https://www.regulations.gov, including any personal information provided. For access to the docket to read background documents or comments received, go to https://www.regulations.gov.

FOR FURTHER INFORMATION CONTACT: Stephanie Thomas, ACIP Committee Management Specialist, Centers for Disease Control and Prevention, National Center for Immunization and Respiratory Diseases, 1600 Clifton Road NE, MS–H24–8, Atlanta, GA 30329–4027; Telephone: 404–639–8367; Email: ACIP@cdc.gov.

SUPPLEMENTARY INFORMATION: In accordance with 41 CFR 102–3.15(b), less than 15 calendar days’ notice is being given for this meeting due to the exceptional circumstances of the COVID–19 pandemic and rapidly evolving COVID–19 vaccine development and regulatory processes. The Secretary of Health and Human Services has determined that COVID–19 is a Public Health Emergency. A notice of this ACIP meeting has also been posted on CDC’s ACIP website at: http://www.cdc.gov/vaccines/acip/index.html. In addition, CDC has sent notice of this ACIP meeting by email to those who subscribe to receive email updates about ACIP.

Purpose: The committee is charged with advising the Director, CDC, on the use of immunizing agents. In addition, under 42 U.S.C. 1396s, the committee is mandated to establish and periodically review and, as appropriate, revise the list of vaccines for administration to vaccine-eligible children through the Vaccines for Children (VFC) program, along with schedules regarding dosing interval, dosage, and contraindications to administration of vaccines. Further, under provisions of the Affordable Care Act, section 2713 of the Public Health Service Act, immunization recommendations of the ACIP that have been approved by the Director of the Centers for Disease Control and Prevention appear on CDC immunization schedules must be covered by applicable health plans.

Matters to be Considered: The agenda will include discussions on COVID–19 vaccines, including use of the Pfizer-BioNTech COVID–19 vaccine under the Food and Drug Administration’s (FDA) expanded Emergency Use Authorization (EUA) for adolescents 12–15 years of age. A recommendation vote(s) is scheduled. Agenda items are subject to change as priorities dictate. For more information on the meeting agenda visit https://www.cdc.gov/vaccines/acip/meetings/meetings-info.html.

Meeting Information: The meeting will be webcast live via the World Wide Web; for more information on ACIP please visit the ACIP website: http://www.cdc.gov/vaccines/acip/index.html.

Public Participation
Interested persons or organizations are invited to participate by submitting written views, recommendations, and
data. Please note that comments received, including attachments and other supporting materials, are part of the public record and are subject to public disclosure. Comments will be posted on https://www.regulations.gov. Therefore, do not include any information in your comment or supporting materials that you consider confidential or inappropriate for public disclosure. If you include your name, contact information, or other information that identifies you in the body of your comments, that information will be on public display. CDC will review all submissions and may choose to redact, or withhold, submissions containing private or proprietary information such as Social Security numbers, medical information, inappropriate language, or duplicate/near duplicate examples of a mass-mail campaign. CDC will carefully consider all comments submitted into the docket.

Written Public Comment: Written comments must be received on or before May 12, 2021.

Oral Public Comment: This meeting will include time for members of the public to make an oral comment. Oral public comment will occur before any scheduled votes including all votes relevant to the ACIP's Affordable Care Act and Vaccines for Children Program roles. Priority will be given to individuals who submit a request to make an oral public comment before the meeting according to the procedures below.

Procedure for Oral Public Comment:
All persons interested in making an oral public comment at the May 12, 2021 ACIP meeting must submit a request at http://www.cdc.gov/vaccines/acip/meetings/ no later than 11:59 p.m., EDT, May 10, 2021 according to the instructions provided.
If the number of persons requesting to speak is greater than can be reasonably accommodated during the scheduled time, CDC will conduct a lottery to determine the speakers for the scheduled public comment session. CDC staff will notify individuals regarding their request to speak by email by 12:00 p.m., EDT, May 11, 2021. To accommodate the significant interest in participation in the oral public comment session of ACIP meetings, each speaker will be limited to 3 minutes, and each speaker may only speak once per meeting.

The Director, Strategic Business Initiatives Unit, Office of the Chief Operating Officer, Centers for Disease Control and Prevention, has been delegated the authority to sign Federal Register notices pertaining to announcements of meetings and other committee management activities, for both the Centers for Disease Control and Prevention and the Agency for Toxic Substances and Disease Registry.

Kalwant Smagh,
Director, Strategic Business Initiatives Unit, Office of the Chief Operating Officer, Centers for Disease Control and Prevention.

[FR Doc. 2021-09893 Filed 5-6-21; 11:15 am]
BILLING CODE 4163-18-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Administration for Children and Families

[CFDA Number: 93.676]

Announcement of Intent To Issue Multiple Single-Source Awards To Provide Residential (Shelter) and Transitional Foster Care Services, and for Finger Print Services for Unaccompanied Children

AGENCY: Office of Refugee Resettlement (ORR), Administration for Children and Families (ACF), Department of Health and Human Services (HHS).

ACTION: Notice of issuance of multiple single-source awards to seven recipients.

SUMMARY: ACF, ORR announces the issuance of multiple Single-Source Awards to seven recipients in the amount of $65,366,800. ORR has been identifying additional permanent capacity to provide shelter for recent increases in apprehensions of Unaccompanied Children (UC) at the Southwest Border. The addition of permanent capacity is a prudent step to ensure that ORR is able to meet its responsibility, by law, to provide shelter and appropriate services for UC referred to its care by the Department of Homeland Security.

DATES: The proposed period of performance is May 1, 2021 to May 1, 2022.


SUPPLEMENTAL INFORMATION: ORR is continuously monitoring its capacity to shelter the UC referred to HHS, as well as the information received from interagency partners, to inform any future decisions or actions.

ORR has specific requirements for the provision of services. Award recipients must have the infrastructure, licensing, experience, and appropriate level of trained staff to meet those requirements.

ORR announces the intent to award the following single-source awards:

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Crisis, Mesa, AZ</td>
<td>$5,780,118</td>
</tr>
<tr>
<td>Catholic Guardian Services, New York, NY</td>
<td>5,183,433</td>
</tr>
<tr>
<td>Center for Family Services, Camden, NJ</td>
<td>1,665,980</td>
</tr>
<tr>
<td>LIRS—Shelter/TFG, Multiple Locations</td>
<td>27,767,725</td>
</tr>
<tr>
<td>Baptist Group, Memphis, TN</td>
<td>14,135,642</td>
</tr>
<tr>
<td>Bethany Christian Service, Multiple Locations</td>
<td>7,018,576</td>
</tr>
<tr>
<td>LIRS—Safe Release Expansion, Multiple Locations</td>
<td>3,815,326</td>
</tr>
</tbody>
</table>

Statutory Authority: This program is authorized by—

(A) Section 462 of the Homeland Security Act of 2002, which in March 2003, transferred responsibility for the care and custody of UAC from the Commissioner of the former Immigration and Naturalization Service to the Director of ORR within HHS.

(B) The Flores Settlement Agreement, Case No. CV85–4544–RJK (C.D. Cal. 1996), as well as the William Wilberforce Trafficking Victims Protection Reauthorization Act of 2008 (Pub. L. 110–457), which authorizes post release services under certain conditions to eligible children. All programs must comply with the Flores Settlement Agreement, Case No. CV85–4544–RJK (C.D. Cal. 1996); pertinent regulations; and ORR policies and procedures.

Elizabeth Leo,
Senior Grants Policy Specialist, Office of Grants Policy, Office of Administration.

[FR Doc. 2021–09878 Filed 5–4–21; 4:15 pm]
BILLING CODE 4184–45–P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration


Agency Information Collection Activities; Announcement of Office of Management and Budget Approvals

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice.

SUMMARY: The Food and Drug Administration (FDA) is publishing a list of information collections that have
been approved by the Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995 (PRA).

FOR FURTHER INFORMATION CONTACT: Ila S. Mizrahi, Office of Operations, Food and Drug Administration, Three White Flint North, 10A–12M, 11601 Landsdown St., North Bethesda, MD 20852, 301–796–7726, PRAStaff@fda.hhs.gov.

SUPPLEMENTARY INFORMATION: The following is a list of FDA information collections recently approved by OMB under section 3507 of the PRA [44 U.S.C. 3507]. The OMB control number and expiration date of OMB approval for each information collection are shown in table 1. Copies of the supporting statements for the information collections are available on the internet at https://www.reginfo.gov/public/do/PRAMain. An Agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

### Table 1—List of Information Collections Approved by OMB

<table>
<thead>
<tr>
<th>Title of collection</th>
<th>OMB control No.</th>
<th>Date approval expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications for FDA Approval to Market a New Drug</td>
<td>0910–0001</td>
<td>3/31/2024</td>
</tr>
<tr>
<td>Medical Devices; Humanitarian Use Devices</td>
<td>0910–0332</td>
<td>3/31/2024</td>
</tr>
<tr>
<td>Medical Devices; Device Tracking</td>
<td>0910–0442</td>
<td>3/31/2024</td>
</tr>
<tr>
<td>Dispute Resolution Procedures for Science Based Decision on Products Regulated by CVM</td>
<td>0910–0566</td>
<td>3/31/2024</td>
</tr>
<tr>
<td>Use of Public Human Genetic Variant Databases to Support Clinical Validity for Genetic and Genomic-Based In Vitro Diagnostics</td>
<td>0910–0850</td>
<td>3/31/2024</td>
</tr>
<tr>
<td>Assessment of Terms and Phrases Commonly Used in Prescription Drug Promotion</td>
<td>0910–0895</td>
<td>3/31/2024</td>
</tr>
</tbody>
</table>


Lauren K. Roth,
Acting Principal Associate Commissioner for Policy.

[FR Doc. 2021–09811 Filed 5–7–21; 8:45 am]

BILLING CODE 4164–01–P

### DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket Nos. FDA–2021–N–0387]

Agency Information Collection Activities; Proposed Collection; Comment Request; Recommended Content of Medical Product Communications That Are Consistent With the Food and Drug Administration-Required Labeling and Recommendations for Drug and Device Manufacturer Communications With Payors, Formulary Committees, and Similar Entities

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice.

SUMMARY: The Food and Drug Administration (FDA or Agency) is announcing an opportunity for public comment on the proposed collection of certain information by the Agency. Under the Paperwork Reduction Act of 1995 (PRA), Federal Agencies are required to publish notice in the Federal Register concerning each proposed collection of information, including each proposed extension of an existing collection of information, and to allow 60 days for public comment in response to the notice. This notice solicits comments on the information collection associated with recommended content of medical product communications that are consistent with the FDA-required labeling and recommendations for drug and device manufacturer communications with payors, formulary committees, and similar entities.

DATES: Submit either electronic or written comments on the collection of information by July 9, 2021.

ADDRESS: You may submit comments as follows. Please note that late, untimely filed comments will not be considered. Electronic comments must be submitted on or before July 9, 2021. The https://www.regulations.gov electronic filing system will accept comments until 11:59 p.m. Eastern Time at the end of July 9, 2021. Comments received by mail/hand delivery/courier (for written/paper submissions) will be considered timely if they are postmarked or the delivery service acceptance receipt is on or before that date.

Electronic Submissions

Submit electronic comments in the following way:

• Federal eRulemaking Portal: https://www.regulations.gov. Follow the instructions for submitting comments. Comments submitted electronically, including attachments, to https://www.regulations.gov will be posted to the docket unchanged. Because your comment will be made public, you are solely responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be posted, such as medical information, your or anyone else’s Social Security number, or confidential business information, such as a manufacturing process. Please note that if you include your name, contact information, or other information that identifies you in the body of your comments, that information will be posted on https://www.regulations.gov.

• If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission and in the manner detailed (see “Written/Paper Submissions and “Instructions”).

Written/Paper Submissions

Submit written/paper submissions as follows:

• Mail/Hand Delivery/Courier (for written/paper submissions): Dockets Management Staff (HFA–305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852.

For written/paper comments submitted to the Dockets Management Staff, FDA will post your comment, as well as any attachments, except for information submitted, marked and identified, as confidential, if submitted as detailed in “Instructions.”

Instructions: All submissions received must include the Docket No. FDA–2021–N–0387 for “Agency Information Collection Activities; Proposed Collection; Comment Request; Recommended Content of Medical Product Communications That Are Consistent With the FDA-Required Labeling and Recommendations for Drug and Device Manufacturer Communications With Payors, Formulary Committees, and Similar Entities.” Received comments, those filed in a timely manner (see ADDRESSES), will be placed in the docket and, except for those submitted as “Confidential Submissions,” publicly
viewable at https://www.regulations.gov or at the Dockets Management Staff between 9 a.m. and 4 p.m., Monday through Friday, 240–402–7500.

- Confidential Submissions—To submit a comment with confidential information that you do not wish to be made publicly available, submit your comments only as a written/paper submission. You should submit two copies total. One copy will include the information you claim to be confidential with a heading or cover note that states “THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION.” The Agency will review this copy, including the claimed confidential information, in its consideration of comments. The second copy, which will have the claimed confidential information redacted/blacked out, will be available for public viewing and posted on https://www.regulations.gov. Submit both copies to the Dockets Management Staff. If you do not wish your name and contact information to be made publicly available, you can provide this information on the cover sheet and not in the body of your comments and you must identify this information as “confidential.” Any information marked as “confidential” will not be disclosed except in accordance with 21 CFR 10.20 and other applicable disclosure law. For more information about FDA’s posting of comments to public dockets, see 80 FR 56469, September 18, 2015, or access the information at: https://www.govinfo.gov/content/pkg/FR-2015-09-18/pdf/2015-23389.pdf.

Docket: For access to the docket to read background documents or the electronic and written/paper comments received, go to http://www.regulations.gov and insert the docket number, found in brackets in the heading of this document, into the “Search” box and follow the prompts and/or go to the Dockets Management Staff, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852, 240–402–7500.

FOR FURTHER INFORMATION CONTACT:
Domini Bean, Office of Operations, Food and Drug Administration, Three White Flint North, 10A–12M, 11601 Landsdown St., North Bethesda, MD 20852, 301–796–5733, PRASTaff@fda.hhs.gov.

SUPPLEMENTARY INFORMATION: Under the PRA (44 U.S.C. 3501–3521), Federal Agencies must obtain approval from the Office of Management and Budget (OMB) for each collection of information they conduct or sponsor. “Collection of information” is defined in 44 U.S.C. 3502(2) and 5 CFR 1320.3(c) and includes Agency requests or requirements that members of the public submit reports, keep records, or provide information to a third party. Section 3506(c)(2)(A) of the PRA (44 U.S.C. 3506(c)(2)(A)) requires Federal Agencies to provide a 60-day notice in the Federal Register concerning each proposed collection of information, including each proposed extension of an existing collection of information, before submitting the collection to OMB for approval. To comply with this requirement, FDA is publishing notice of the proposed collection of information set forth in this document. With respect to the following collection of information, FDA invites comments on these topics: (1) Whether the proposed collection of information is necessary for the proper performance of FDA’s functions, including whether the information will have practical utility; (2) the accuracy of FDA’s estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used; (3) ways to enhance the quality, utility, and clarity of the information to be collected; and (4) ways to minimize the burden of the collection of information on respondents, including through the use of automated collection techniques, when appropriate, and other forms of information technology.

I. Medical Product Communications That Are Consistent With the FDA-Required Labeling—Questions and Answers

OMB Control Number 0910–0856—Extension

This information collection supports the Federal Food, Drug, and Cosmetic Act (FD&C Act) and FDA’s implementing regulations that govern drug and device labeling and prescription drug and restricted device advertising. The FD&C Act specifies that a drug or device shall be deemed to be misbranded if its labeling is false or misleading in any particular (section 502(a) [21 U.S.C. 352(a)]) and that labeling may be considered misleading if it fails to reveal material facts about the product being promoted, including facts that are material in light of the representations made in a promotional piece. The FD&C Act also specifies that restricted device advertisements must not be false or misleading (section 502(q)(1)) and must reveal facts that are material about the product being advertised (section 201(n)).

To assist respondents with the requirements drug and device labeling and prescription drug and restricted device advertising, we developed the guidance for industry entitled “Medical Product Communications That Are Consistent With the FDA-Required Labeling—Questions and Answers” (June 2018) [medical product communications guidance], available at https://www.fda.gov/media/133619/download. This medical product communications guidance includes recommendations that firms consider when developing “consistent with the FDA-required labeling (CFL)” presentations in their labeling and advertising materials to help ensure the presentations are not false or misleading in violation of the FD&C Act and FDA’s implementing regulations. The guidance also describes FDA’s thinking when examining the consistency of a firm’s product communications with that product’s own FDA-required labeling. As explained in the guidance, if a firm communicates information that is not contained in its product’s FDA-required labeling but that is determined to be consistent with the FDA-required labeling, FDA does not intend to rely on that communication to establish a new intended use that is different from the use or uses for which the product is legally marketed. Establishing a product’s intended uses is an element in establishing certain violations under the FD&C Act and Public Health Service Act. Firms’ communications about their products that are consistent with the products’ FDA-required labeling but that are false or misleading may subject a firm to enforcement action under the FD&C Act. Thus, the guidance not only describes FDA’s thinking on communications that are consistent with the FDA-required labeling, but also provides general recommendations intended to help firms comply with requirements in the FD&C Act and FDA’s implementing regulations for conveying information that is consistent with the FDA-required labeling in a truthful and non-misleading way. The medical product communications guidance recommends that firms accurately represent the communications any study results or other data and information that are relied upon to support a firm’s CFL promotional communication. Other
Since our last request for OMB approval, we have made no adjustments to the currently approved burden estimate.

II. Recommendations for Drug and Device Manufacturer Communications With Payors, Formulary Committees, and Similar Entities

OMB Control Number 0910–0857—Extension

This information collection also supports implementation of section 502(a) of the FD&C Act and applicable Agency regulations. Section 502(a)(1) of the FD&C Act provides that a drug or device is deemed to be misbranded “if its labeling is false or misleading in any particular.” Under longstanding FDA practice and FDA’s statute and regulations, and under case law, labeling encompasses more than merely the label of the drug, but extends to other written, printed, or graphic matter “accompanying such article” (section 201(m) of the FD&C Act; see also 21 CFR 1.3(a)). Section 502(a) also includes a provision about communication of health care economic information (HCEI) to payors through labeling or advertising. To assist respondents in this regard, we developed the guidance for industry and review staff entitled “Drug and Device Manufacturer Communications With Payors, Formulary Committees, and Similar Entities—Questions and Answers” (June 2018) (drug and device communications guidance), available at https://www.fda.gov/media/133620/download.

This drug and device communications guidance includes recommendations regarding information firms should include in HCEI for prescription drugs if they choose to disseminate such materials (HCEI materials) to payors, in accordance with section 502(a) of the FD&C Act. Specifically, if a manufacturer communicates HCEI for approved prescription drugs (including biological products that also meet the definition of drug under the FD&C Act and approved or cleared medical devices (collectively referred to as medical products)) to payors, FDA recommends that firms include in HCEI materials disseminated to payors information about: (1) Various aspects of study design and methodology of an economic analysis (i.e., type of analysis, modeling technique, patient population, perspective or viewpoint, treatment comparator, time horizon, outcome measures, cost estimates, and assumptions); (2) factors that limit generalizability of an economic analysis; limitations to an economic analysis; and (3) sensitivity analyses, if applicable, to allow for informed decision making by payors.

Furthermore, FDA recommends that firms include other information when disseminating HCEI materials, as applicable, to provide a balanced and complete presentation. Such information includes a statement of the FDA-approved indication of the drug and a copy of the most current FDA-approved labeling. Under section 502(a) of the FD&C Act, firms must also include a conspicuous and prominent statement to describe any material differences between the HCEI and the FDA-approved labeling. HCEI materials should also disclose whether certain studies or data sources were omitted from an economic analysis and how the omission of those studies or data sources may alter the conclusions presented in the analysis. Moreover, FDA recommends that HCEI materials disclose important risk information associated with the approved use of the drug, and pursuant to section 502(a) of the FD&C Act, HCEI materials must disclose any additional risk information related to assumptions that vary from the approved labeling. In addition, HCEI materials should disclose potential financial or affiliation biases to the extent reasonably known by firms at the time of dissemination.

The drug and device communications guidance provides similar recommendations for HCEI materials disseminated to payors about approved or cleared devices.

If firms choose to make communications to payors about unapproved products or unapproved uses of approved or cleared products, FDA recommends that firms include a clear statement with their communications that the product or use is not approved or cleared and that the safety or effectiveness of the product or use has not been established.

We estimate the burden of this collection of information as follows:

### Table 1—Estimated Annual Third-Party Disclosure Burden

<table>
<thead>
<tr>
<th>Information collection activity</th>
<th>Number of respondents</th>
<th>Number of disclosures per respondent</th>
<th>Total annual disclosures</th>
<th>Average burden per disclosure</th>
<th>Total hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended information to be included when firms choose to disseminate communications that are consistent with the FDA-required labeling</td>
<td>324</td>
<td>30</td>
<td>9,720</td>
<td>4</td>
<td>38,880</td>
</tr>
</tbody>
</table>

1 There are no capital costs or operating and maintenance costs associated with this collection of information.
### TABLE 2—ESTIMATED ANNUAL THIRD-PARTY DISCLOSURE BURDEN

<table>
<thead>
<tr>
<th>Information collection activity</th>
<th>Number of respondents</th>
<th>Number of responses per respondent</th>
<th>Total annual responses</th>
<th>Average burden per response</th>
<th>Total hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended information to be included when firms choose to disseminate HCEI materials to payors about approved prescription drugs</td>
<td>430</td>
<td>10.465</td>
<td>4,500</td>
<td>20</td>
<td>90,000</td>
</tr>
<tr>
<td>Recommended information to be included when firms choose to disseminate HCEI materials to payors about approved or cleared devices</td>
<td>236</td>
<td>10</td>
<td>2,360</td>
<td>20</td>
<td>47,200</td>
</tr>
<tr>
<td>Recommended information to be included when firms choose to disseminate information about unapproved products or unapproved uses of approved or cleared products</td>
<td>717</td>
<td>2</td>
<td>1,434</td>
<td>0.5</td>
<td>717</td>
</tr>
<tr>
<td>Follow-up information to payors regarding previously communicated information about unapproved products or unapproved uses of approved or cleared products</td>
<td>359</td>
<td>2</td>
<td>718</td>
<td>2</td>
<td>1,436</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>9,012</td>
<td></td>
<td>139,353</td>
</tr>
</tbody>
</table>

1 There are no capital costs or operating and maintenance costs associated with this collection of information.

---

We have adjusted the estimate of burden we associate with the information collection recommendations in the guidance to reflect an increase of 2,000 hours and 100 responses annually.


Lauren K. Roth,
Acting Principal Associate Commissioner for Policy.

[FR Doc. 2021-09809 Filed 5–7–21; 8:45 am]

BILLING CODE 4164–01–P

---

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA–2011–N–0742]

**Agency Information Collection Activities; Proposed Collection; Comment Request; Registration of Producers of Drugs and Listing of Drugs in Commercial Distribution**

**AGENCY:** Food and Drug Administration, HHS.

**ACTION:** Notice.

**SUMMARY:** The Food and Drug Administration (FDA, we, or Agency) is announcing an opportunity for public comment on the proposed collection of certain information by the Agency. Under the Paperwork Reduction Act of 1995 (PRA), Federal Agencies are required to publish notice in the Federal Register concerning each proposed collection of information, including each proposed extension of an existing collection of information, and to allow 60 days for public comment in response to the notice. This notice solicits comments on the information collection associated with drug establishment registration and product listing requirements.

**DATES:** Submit either electronic or written comments on the collection of information by July 9, 2021.

**ADDRESSES:** You may submit comments as follows. Please note that late, untimely filed comments will not be considered. Electronic comments must be submitted on or before July 9, 2021. The [https://www.regulations.gov](https://www.regulations.gov) electronic filing system will accept comments until 11:59 p.m. Eastern Time at the end of July 9, 2021. Comments received by mail/hand delivery/courier (for written/paper submissions) will be considered timely if they are postmarked or the delivery service acceptance receipt is on or before that date.

**Electronic Submissions**

Submit electronic comments in the following way:

- **Federal eRulemaking Portal:** [https://www.regulations.gov](https://www.regulations.gov). Follow the instructions for submitting comments. Comments submitted electronically, including attachments, to [https://www.regulations.gov](https://www.regulations.gov) will be posted to the docket unchanged. Because your comment will be made public, you are solely responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be posted, such as medical information, your or anyone else’s Social Security number, or confidential business information, such as a manufacturing process. Please note that if you include your name, contact information, or other information that identifies you in the body of your comments, that information will be posted on [https://www.regulations.gov](https://www.regulations.gov).

- If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission and in the manner detailed (see “Written/Paper Submissions” and “Instructions”).

**Written/Paper Submissions**

Submit written/paper submissions as follows:

- **Mail/Hand Delivery/Courier (for written/paper submissions):** Dockets Management Staff (HFA–305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852.
- For written/paper comments submitted to the Dockets Management Staff, FDA will post your comment, as well as any attachments, except for information submitted, marked and identified, as confidential, if submitted as detailed in “Instruction.”

**Instructions:** All submissions received must include the Docket No. FDA–2011–N–0742 for “Agency Information Collection Activities; Proposed Collection; Comment Request; Registration of Producers of Drugs and Listing of Drugs in Commercial Distribution.” Received comments, those filed in a timely manner (see **ADDRESSES**), will be placed in the docket and, except for those submitted as “Confidential Submissions,” publicly viewable at [https://www.regulations.gov](https://www.regulations.gov) or at the Dockets Management Staff between 9 a.m. and 4 p.m., Monday through Friday, 240–402–7500.

- **Confidential Submissions**—To submit a comment with confidential information that you do not wish to be made publicly available, submit your comments only as a written/paper...
Before submitting the collection to OMB for approval. To comply with this requirement, FDA is publishing notice of the proposed collection of information set forth in this document. With respect to the following collection of information, FDA invites comments on these topics: (1) Whether the proposed collection of information is necessary for the proper performance of FDA’s functions, including whether the information will have practical utility; (2) the accuracy of FDA’s estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used; (3) ways to enhance the quality, utility, and clarity of the information to be collected; and (4) ways to minimize the burden of the collection of information on respondents, including through the use of automated collection techniques, when appropriate, and other forms of information technology.

**Registration of Producers of Drugs and Listing of Drugs in Commercial Distribution—21 CFR Part 207**

OMB Control Number 0910–0045—Revision

This information collection supports implementation of drug establishment registration and listing requirements governed by FDA. These requirements were set forth in section 510 of the Federal Food, Drug, and Cosmetic Act (FD&C Act) (21 U.S.C. 360) and section 351 of the Public Health Service Act (42 U.S.C. 262) and provide for electronic submission of information. Agency regulations implementing these provisions are found in part 207 (21 CFR part 207) and set forth the scope, applicability, and content of information to be included in submissions. Except as provided in §207.65, all information submitted under part 207 must be transmitted to FDA in an electronic format by using our electronic drug registration and listing system, in a form that we can process, review, and archive. For more information pertaining to drug establishment registration and listing, we invite you to visit our website at: https://www.fda.gov/drugs/drug-approvals-and-databases/drug-establishments-current-registration-site.

We are revising the information collection to include the collection of certain information required by the Coronavirus Aid, Relief, and Economic Security (CARES) Act. Section 3112 of the CARES Act requires that registrants under section 510 of the FD&C Act must annually report the amount of each drug listed that was manufactured, prepared, propagated, compounded, or processed for commercial distribution. Section 3112(e) also authorizes FDA to require that registrants report this information electronically. Finally, section 3112(e) granted FDA the authority to require that registrants report this information at the time a public health emergency is declared.

To assist respondents to the information collection with the current electronic reporting requirements, we issued the guidance document entitled “Providing Regulatory Submissions in Electronic Format—Drug Establishment Registration and Drug Listing” (June 2009), available from our website at: https://www.fda.gov/regulatory-information/search-fda-guidance-documents/providing-regulatory-submissions-electronic-format-drug-establishment-registration-and-drug-listing. Guidance on the submission of the reporting required in section 3112(e) of the CARES Act is included on CDER’s 2021 guidance agenda available from our website at: https://www.fda.gov/media/134778/download. Agency guidance documents are issued consistent with our good guidance practice regulations in 21 CFR 10.115, which provide for public comment at any time.

**Registration under part 207:** Unless otherwise exempt under section 510(g) of the FD&C Act or §207.13, all manufacturers, repackers, relabelers, and salvagers must register each domestic establishment that manufactures, repacks, relabels, or salvages a drug, or an animal feed bearing or containing a new animal drug, and each foreign establishment that manufactures, repacks, relabels, or salvages a drug, or an animal feed bearing or containing a new animal drug that is imported or offered for import into the United States. When operations are conducted at more than one establishment and common ownership and control among all the establishments exists, the parent, subsidiary, or affiliate company may submit registration information for all establishments. Private label distributors who do not also manufacture, repack, relabel, or salvage drugs are not required to register under part 207. We will accept registration or listing information submitted by a private label distributor only if the distributor is acting as an authorized agent for and submitting information that pertains to an establishment that manufactures, repacks, relabels, or salvages drugs.

**Listing requirements under part 207:** Under §207.41, registrants must list each drug that it manufactures, repacks,
relabels, or salvages for commercial distribution. Each domestic registrant must list each such drug regardless of whether the drug enters interstate commerce. When operations are conducted at more than one establishment, and common ownership and control exists among all the establishments, the parent, subsidiary, or affiliate company may submit listing information for any drug manufactured, repacked, relabeled, or salvaged at any such establishment. A drug manufactured, repacked, or relabeled for private label distribution must be listed in accordance with the requirements in §207.41(c).

We estimate the burden of the information collection as follows:

### TABLE 1—ESTIMATED ANNUAL REPORTING BURDEN ¹

<table>
<thead>
<tr>
<th>Information collection activity; 21 CFR/statutory citation</th>
<th>Number of respondents</th>
<th>Number of responses per respondent</th>
<th>Total annual responses</th>
<th>Average burden per response</th>
<th>Total hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial establishment registration; §§ 207.17, 207.21, and 207.25.</td>
<td>1,480</td>
<td>2</td>
<td>2,960</td>
<td>1</td>
<td>2,960</td>
</tr>
<tr>
<td>Annual review and update of registration information (including expedited updates); § 207.29.</td>
<td>10,000</td>
<td>1</td>
<td>10,000</td>
<td>0.5 (30 minutes)</td>
<td>5,000</td>
</tr>
<tr>
<td>Initial listing (including National Drug Code); §§ 207.33, 207.41, 207.45, 207.49, 207.53, 207.54, and 207.55.</td>
<td>1,713</td>
<td>7.28</td>
<td>12,470</td>
<td>1.5</td>
<td>18,705</td>
</tr>
<tr>
<td>June and December review and update (or certification) of listing; §§ 207.35 and 207.57.</td>
<td>5,300</td>
<td>20</td>
<td>106,000</td>
<td>0.75 (45 minutes)</td>
<td>79,500</td>
</tr>
<tr>
<td>Waiver requests; § 207.65</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0.5 (30 minutes)</td>
<td>1</td>
</tr>
<tr>
<td>Public disclosure exemption request; § 207.81(c)</td>
<td>100</td>
<td>1</td>
<td>100</td>
<td>1</td>
<td>100</td>
</tr>
<tr>
<td>Manufacturing amount information; Section 3112 CARES Act.</td>
<td>12,800</td>
<td>22.5</td>
<td>288,000</td>
<td>0.25 (15 minutes)</td>
<td>72,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>419,531</td>
</tr>
</tbody>
</table>

¹ There are no capital costs or operating and maintenance costs associated with this collection of information.

### TABLE 2—ESTIMATED ANNUAL RECORDKEEPING BURDEN ¹

<table>
<thead>
<tr>
<th>Information collection from guidance recommendations</th>
<th>Number of recordkeepers</th>
<th>Number of records per recordkeeper</th>
<th>Total annual records</th>
<th>Average burden per recordkeeping</th>
<th>Total hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing Standard Operating Procedures for creating and uploading the Structured Product Labeling file</td>
<td>1,000</td>
<td>1</td>
<td>1,000</td>
<td>40</td>
<td>40,000</td>
</tr>
</tbody>
</table>

¹ There are no capital costs or operating and maintenance costs associated with this collection of information.

According to internal data, we estimate 1,480 respondents will submit 2,960 new establishment registrations annually. We estimate that 10,000 registrants will provide 10,000 annual reviews and updates of registration information (including expedited updates) or reviews and certifications that no changes have occurred. The estimates include the registration of establishments for both domestic and foreign manufacturers, repackers, relabelers, and drug product salvagers, and registration information submitted by anyone acting as an authorized agent for an establishment that manufactures, repacks, relabels, or salvages drugs. The estimates include an additional 80 positron emission tomography drug producers who are not exempt from registration and approximately 30 manufacturers of plasma derivatives.

We assume 1 hour is necessary for registrants to submit initial registration information electronically for each new establishment. We assume 30 minutes is necessary for each annual review and update of registration information (including any expedited updates) or each review and certification that no changes have occurred. Our estimate reflects the average amount of time and effort necessary to register a domestic or foreign establishment, and the average amount of time and effort necessary to review and update registration information, or review registration information and certify no changes have occurred.

Based on the number of drugs listed quarterly since June 2009, we estimate 1,713 registrants will report approximately 12,469 new listings annually (including the information submitted to obtain a labeler code and to reserve a National Drug Code (NDC) for future use). Based on the number of drugs in our listing database and the current number of changes to listing information submitted, we estimate 5,300 registrants will each report 20 reviews and updates (including the information submitted to revise an NDC) for a total of 106,000 annually. The estimates for the number of drug listings include both domestic and foreign listings, listings submitted by registrants for products sold under their own names as well as products intended for private label distribution, and information submitted related to an NDC and to obtain a labeler code. The estimate for the number of drugs subject to the listing requirements includes positron emission tomography drugs and approximately 30 plasma derivatives. The estimates for the number of June and December reviews and updates of listing information include the number of changes to drug characteristics pertaining to the drug product code to obtain a new NDC and the reports of the withdrawal of an approved drug from sale under §314.81(b)(3)(iii) (21 CFR 314.81(b)(3)(iii)).

Based on our experience with electronically listing submissions since June 2009, we assume it takes 1 hour and 30 minutes to submit information electronically for each drug listed for the first time (for both foreign and domestic registrant listings). These estimates are an average of the time it will take manufacturers, repackers, relabelers, and drug product salvagers, with drug product salvagers taking...
considerably less time than manufacturers. The estimates include the time for submitting the content of labeling and other labeling in an electronic format (for drugs subject to an approved marketing application, the electronic submission of the content of labeling under § 314.50(g)(1)(i) is approved under OMB control number 0910–0001). We assume it takes 45 minutes for each June and December review and update. These estimates represent the average amount of time to review and update listing information or to review and certify that no changes have occurred. The estimates include the time for submitting any labeling for each drug, changes to the drug’s characteristics submitted for a new NDC, and reports of the withdrawal of an approved drug from sale under § 314.81(b)(3)(iii).

Finally, although we expect most respondents will already have prepared a standard operating procedure (SOP) for the electronic submission of drug establishment registration and drug listing information, we estimate each year additional firms will need to create an SOP as recommended in the guidance. We therefore estimate 1,000 firms will expend approximately 40 hours to prepare, review, and approve an SOP, for a total of 40,000 hours annually.

While we retain the currently approved burden estimates for information collection associated with provisions in part 207, we have adjusted our estimate upward by 72,000 hours and 288,000 responses to account for information collection associated with the new manufacturing amount information element required by the CARES Act.


Lauren K. Roth,
Acting Principal Associate Commissioner for Policy.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of the following meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.


Melanie J. Pantoja,
Program Analyst, Office of Federal Advisory Committee Policy.

BILLING CODE 4140–01–P

BILLING CODE 4140–01–P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Center for Scientific Review; Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as
amended, notice is hereby given of the following meetings.

The meetings will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: Population Sciences and Epidemiology Integrated Review Group; Social Sciences and Population Studies A Study Section.

Date: June 7–8, 2021.
Time: 10:00 a.m. to 6:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Suzanne Ryan, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3139, MSC 7770, Bethesda, MD 20892, (301) 435–1712, ryansj@csr.nih.gov.

Name of Committee: Genes, Genomes, and Genetics Integrated Review Group; Genetic Variation and Evolution Study Section.

Date: June 9–10, 2021.
Time: 9:00 a.m. to 6:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Guoqin Yu, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3139, MSC 7770, Bethesda, MD 20892, (301) 435–1276, guoqin.yu@nih.gov.

Name of Committee: Biological Chemistry and Macromolecular Biophysics Integrated Review Group; Macromolecular Structure and Function C Study Section.

Date: June 10–11, 2021.
Time: 9:00 a.m. to 8:30 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: William A. Greenberg, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4168, MSC 7806, Bethesda, MD 20892, (301) 435–1726, greenbergwa@csr.nih.gov.

Name of Committee: Endocrinology, Metabolism and Reproductive Sciences Integrated Review Group; Nutrition and Metabolism in Health and Disease Study Section.

Date: June 10–11, 2021.
Time: 9:00 a.m. to 8:30 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Gregory S. Shelness, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6156, Bethesda, MD 20892–7892, 301–755–4335, greg.shelness@nih.gov.

Name of Committee: Infectious Diseases and Immunology B Integrated Review Group; Clinical Research and Field Studies of Infectious Diseases Study Section.

Date: June 10–11, 2021.
Time: 9:00 a.m. to 8:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Pauline Cupit, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, 301–827–3275, cupitcunningham@mail.nih.gov.

Name of Committee: Brain Disorders and Clinical Neuroscience Integrated Review Group; Clinical Neuroimmunology and Brain Tumors Study Section.

Date: June 10–11, 2021.
Time: 9:30 a.m. to 7:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).

Name of Committee: Maxime A. Kagansos, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 1021, Bethesda, MD 20817, 301–415–1042, aleksey.kazantsev@nih.gov.

Name of Committee: Genes, Genomes, and Genetics Integrated Review Group; Maximizing Investigators’ Research Award A Study Section.

Date: June 10–11, 2021.
Time: 9:30 a.m. to 8:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Emily Foley, Ph.D., Scientific Review Officer, Center for Scientific Review, Bethesda, MD 20892, 301–402–3016, emily.foley@nih.gov.

Name of Committee: Biology of Development and Aging Integrated Review Group; Mechanisms of Cancer Therapeutics—2 Study Section.

Date: June 14–15, 2021.
Time: 9:00 a.m. to 7:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Careen K. Tang-Toth, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6214, MSC 7804, Bethesda, MD 20892, (301) 435–3504, tothcf@csr.nih.gov.

Name of Committee: Oncology 1-Basic Translational Integrated Review Group; Tumor Progression and Metastasis Study Section.

Date: June 15–16, 2021.
Time: 9:30 a.m. to 8:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Rolf Jakobi, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6187, MSC 7806, Bethesda, MD 20892, 301–495–1718, jakobir@mail.nih.gov.

Name of Committee: Oncology 1-Basic Translational Integrated Review Group; Cancer Etiology Study Section.

Date: June 15–16, 2021.
Time: 10:00 a.m. to 8:30 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Sarita Kandula Sastry, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20872, 301–402–4788, sarita.sastry@nih.gov.

Name of Committee: Population Sciences and Epidemiology Integrated Review Group; Behavioral Genetics and Epidemiology Study Section.

Date: June 16–17, 2021.
Time: 9:00 a.m. to 7:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD 20892 (Virtual Meeting).
Contact Person: Andrew Louden, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3137, Bethesda, MD 20817, 301–435–1985, loudenan@csr.nih.gov.


David W. Freeman,
Program Analyst, Office of Federal Advisory Committee Policy.
[FR Doc. 2021–09834 Filed 5–7–21; 8:45 am]
BILLING CODE 4140–01–P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Clinical Center; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of a
meeting of the Board of Scientific Counselors of the NIH Clinical Center. The meeting will be closed to the public as indicated below in accordance with the provisions set forth in section 552b(c)(6), Title 5 U.S.C., as amended for the review, discussion, and evaluation of individual intramural programs and projects conducted by the CLINICAL CENTER, including consideration of personnel qualifications and performance, and the competence of individual investigators, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: Board of Scientific Counselors of the NIH Clinical Center.
Date: June 7, 2021.
Time: 10:00 a.m. to 5:00 p.m.
Agenda: Department of Nursing Presentations and interviews and RADIS Review.
Place: Clinical Center 10 Center Drive Bethesda, MD 20892 (Virtual Meeting).

Any interested person may file written comments with the committee by forwarding the statement to the Contact Person listed on this notice. The statement should include the name, address, telephone number and when applicable, the business or professional affiliation of the interested person. This meeting is closed to the public. In the interest of security, NIH has instituted stringent procedures for entrance onto the NIH campus. All visitor vehicles, including taxicabs, hotel, and airport shuttles will be inspected before being allowed on campus. Visitors will be asked to show one form of identification (for example, a government-issued photo ID, driver’s license, or passport) and to state the purpose of their visit.

Patricia B. Hansberger, Supervisory Program Analyst, Office of Federal Advisory Committee Policy.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health
Eunice Kennedy Shriver National Institute of Child Health and Human Development; Notice of Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of a meeting of the National Advisory Child Health and Human Development Council.

The meeting will be held as a virtual meeting and is open to the public. Individuals who plan to view the virtual meeting and need special assistance or other reasonable accommodations to view the meeting, should notify the Contact Person listed below in advance of the meeting. The open session will be videocast and can be accessed from the NIH Videocasting and Podcasting website (http://videocast.nih.gov/).

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: National Advisory Child Health and Human Development Council.
Date: June 7–8, 2021.
Open: June 7, 2021, 12:30 p.m. to 5:00 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Building 31, 31 Center Drive, C-Wing, Conference Room 6, Bethesda, MD 20892, (Virtual Meeting).
Closed: June 8, 2021, 12:30 p.m. to 4:30 p.m.
Agenda: To review and evaluate grant applications.
Place: National Institutes of Health, Building 31, 31 Center Drive, C-Wing, Conference Room 6, Bethesda, MD 20892, (Virtual Meeting).
Contact Person: Eugene Hayunga, Ph.D., Director, Office of Extramural Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, 6710B Rockledge Drive, Room 2216, Bethesda, MD 20892, 301–451–1744, ehayunga@mail.nih.gov.

Any interested person may file written comments with the committee by forwarding the statement to the Contact Person listed on this notice. The statement should include the name, address, telephone number, and when applicable, the business or professional affiliation of the interested person. Individuals will be able to view the meeting via NIH Videocast. Select the following link for Videocast access instructions: http://www.nichd.nih.gov/about/advisory/nachhd/Pages/virtual-meeting.aspx. Information is also available on the Institute’s/Center’s home page: https://www.nichd.nih.gov/about/advisory/council, where an agenda and any additional information for the meeting will be posted when available.

(Dataset of Domestic Assistance Program Nos. 93.864, Population Research; 93.865, Research for Mothers and Children; 93.929, Center for Medical Rehabilitation Research; 93.209, Contraception and Infertility Loan Repayment Program, National Institutes of Health, HHS)

Melanie J. Pantoja, Program Analyst, Office of Federal Advisory Committee Policy.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health
National Heart, Lung, and Blood Institute; Notice of Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of a meeting of the National Heart, Lung, and Blood Advisory Council.

The meeting will be open to the public as indicated below, with attendance limited to space available. Individuals who plan to attend and need special assistance, such as sign language interpretation or other reasonable accommodations, should notify the Contact Person listed below in advance of the meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: National Heart, Lung, and Blood Advisory Council.
Date: June 8, 2021.
Open: June 8, 2021, 10:00 a.m. to 12:35 p.m.
Closed: 1:00 p.m. to 5:00 p.m.
Agenda: To Discuss Program Policies and Issues.
Place: National Institutes of Health, Rockledge 1, 6705 Rockledge Dr, Bethesda, MD 20892 (Virtual Meeting).
Virtual Access: The meeting will be videocast and can be accessed from the NIH

www.nichd.nih.gov/about/advisory/council, where an agenda and any additional information for the meeting will be posted when available.

(Federal Register No. 93.864, Population Research; 93.865, Research for Mothers and Children; 93.929, Center for Medical Rehabilitation Research; 93.209, Contraception and Infertility Loan Repayment Program, National Institutes of Health, HHS)

Melanie J. Pantoja, Program Analyst, Office of Federal Advisory Committee Policy.

BILLING CODE 4140–01–P
DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute on Minority Health and Health Disparities; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of the following meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: National Institute on Minority Health and Health Disparities Special Emphasis Panel; Special Emphasis Panel for Review of Conference Grant (R13) Applications.

Date: June 11, 2021.
Time: 1:00 p.m. to 5:00 p.m.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Center for Scientific Review; Amended Notice of Meeting

Notice is hereby given of a change in the meeting of the Center for Scientific Review Special Emphasis Panel, May 26, 2021, 11:00 a.m. to May 26, 2021, 04:00 p.m., National Institutes of Health, Rockledge II, 6701 Rockledge Drive, Bethesda, MD, 20892 which was published in the Federal Register on April 20, 2021, 86 FR 20505.

This notice is being amended to change the panel name of the Center for Scientific Review Special Emphasis Panel; RFA Panel: Tobacco Regulatory Science A (or B) to RFA Panel: Tobacco Regulatory Science A. The meeting is closed to the public.

DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

[Docket ID FEMA–2021–0002]

Final Flood Hazard Determinations


ACTION: Notice.

SUMMARY: Flood hazard determinations, which may include additions or modifications of Base Flood Elevations (BFEs), base flood depths, Special Flood Hazard Area (SFHA) boundaries or zone designations, or regulatory floodways on the Flood Insurance Rate Maps (FIRMs) and where applicable, in the supporting Flood Insurance Study (FIS) reports have been made final for the communities listed in the table below. The FIRM and FIS report are the basis for the floodplain management measures that a community is required either to adopt or to show evidence of having in
effect in order to qualify or remain qualified for participation in the Federal Emergency Management Agency’s (FEMA’s) National Flood Insurance Program (NFIP). In addition, the FIRM and FIS report are used by insurance agents and others to calculate appropriate flood insurance premium rates for buildings and the contents of those buildings.

DATES: The date of August 24, 2021 has been established for the FIRM and, where applicable, the supporting FIS report showing the new or modified flood hazard information for each community.

ADDRESSES: The FIRM, and if applicable, the FIS report containing the final flood hazard information for each community is available for inspection at the respective Community Map Repository address listed in the tables below and will be available online through the FEMA Map Service Center at https://msc.fema.gov by the date indicated above.

FOR FURTHER INFORMATION CONTACT: Rick Sachibit, Chief, Engineering Services Branch, Federal Insurance and Mitigation Administration, FEMA, 400 C Street SW, Washington, DC 20472, (202) 646–7659, or (email) patrick.sachibit@fema.dhs.gov; or visit the FEMA Mapping and Insurance eXchange (FMIX) online at https://www.floodmaps.fema.gov/fhm/fmx_main.html.

SUPPLEMENTARY INFORMATION: The Federal Emergency Management Agency (FEMA) makes the final determinations listed below for the new or modified flood hazard information for each community listed. Notification of these changes has been published in newspapers of local circulation and 90 days have elapsed since that publication. The Deputy Associate Administrator for Insurance and Mitigation has resolved any appeals resulting from this notification.

This final notice is issued in accordance with section 110 of the Flood Disaster Protection Act of 1973, 42 U.S.C. 4104, and 44 CFR part 60. FEMA has developed criteria for floodplain management in flood prone areas in accordance with 44 CFR part 60.

Interested lessees and owners of real property are encouraged to review the new or revised FIRM and FIS report available at the address cited below for each community or online through the FEMA Map Service Center at https://msc.fema.gov.

The flood hazard determinations are made final in the watersheds and/or communities listed in the table below.

(Catalog of Federal Domestic Assistance No. 97.022, “Flood Insurance.”

Michael M. Grimm,

<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
</table>
| **Yavapai County, Arizona and Incorporated Areas**
**Docket No.: FEMA–B–2025** |
| Town of Dewey-Humboldt ................................................................. | Yavapai County Flood Control District, 1120 Commerce Drive, Prescott, AZ 86305. |
| Town of Prescott Valley ................................................................. | Engineering Division, 7501 East Skoog Boulevard, 3rd Floor, Prescott Valley, AZ 86305. |
| Unincorporated Areas of Yavapai County ........................................... | Yavapai County Flood Control District, 1120 Commerce Drive, Prescott, AZ 86305. |
| **Stanislaus County, California and Incorporated Areas**
**Docket No.: FEMA–B–2036** |
| City of Ceres ................................................................. | City Hall, 2220 Magnolia Street, Ceres, CA 95307. |
| City of Modesto ................................................................. | City Hall, 10th Street Place, 1010 10th Street, Modesto, CA 95354. |
| City of Newman ................................................................. | City Hall, 938 Fresno Street, Newman, CA 95360. |
| City of Patterson ................................................................. | City Hall, 1 Plaza Circle, 2nd Floor, Patterson, CA 95363. |
| Unincorporated Areas of Stanislaus County ........................................ | Stanislaus County & City of Modesto Building, 1010 10th Street, Suite 3400, Modesto, CA 95354. |
| **Pinellas County, Florida and Incorporated Areas**
**Docket No.: FEMA–B–1905** |
<p>| City of Belleair Beach ................................................................. | City Hall, 444 Causeway Boulevard, Belleair Beach, FL 33786. |
| City of Belleair Bluffs ................................................................. | City Hall, 2747 Sunset Boulevard, Belleair Bluffs, FL 33770. |
| City of Clearwater ................................................................. | Municipal Services Building, Engineering Department, 100 South Myrtle Avenue, Suite 220, Clearwater, FL 33776. |
| City of Dunedin ................................................................. | Community Development Building, 1415 Pinehurst Road, Unit F, Dunedin, FL 34698. |
| City of Gulfport ................................................................. | Community Development Department, 5330 23rd Avenue South, Gulfport, FL 33707. |
| City of Indian Rocks Beach ................................................................. | City Hall, 1507 Bay Palm Boulevard, Indian Rocks Beach, FL 33785. |
| City of Largo ................................................................. | City Hall, 201 Highland Avenue North, Largo, FL 33770. |
| City of Madeira Beach ................................................................. | Building Department, 300 Municipal Drive, Madeira Beach, FL 33708. |
| City of Oldsmar ................................................................. | City Hall, Planning and Redevelopment Department, 100 State Street West, Oldsmar, FL 34677. |
| City of Pinellas Park ................................................................. | Planning and Development Services, 6051 78th Avenue North, Pinellas Park, FL 33781. |
| City of Safety Harbor ................................................................. | Building Official’s Department, 750 Main Street, Safety Harbor, FL 34695. |
| City of Seminole ................................................................. | City Hall, Community Development Department, 9199 113th Street, Seminole, FL 33772. |
| City of South Pasadena ................................................................. | Building Department, 6940 Hibiscus Avenue South, South Pasadena, FL 33707. |</p>
<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of St. Pete Beach</td>
<td>City Hall, Building Department, 155 Corey Avenue, St. Pete Beach, FL 33706.</td>
</tr>
<tr>
<td>City of St. Peters</td>
<td>Municipal Services Center, 1 4th Street North, St. Peters, FL 33701.</td>
</tr>
<tr>
<td>City of Tarpon Springs</td>
<td>Building Department, 324 East Pine Street, Tarpon Springs, FL 34689.</td>
</tr>
<tr>
<td>City of Treasure Island</td>
<td>City Hall, Community Improvement Department, 120 108th Avenue, Treasure Island, FL 33706.</td>
</tr>
<tr>
<td>Town of Belleair</td>
<td>Town Hall, 901 Ponce de Leon Boulevard, Belleair, FL 33756.</td>
</tr>
<tr>
<td>Town of Belleair Shore</td>
<td>City Clerk’s Office, 1200 Gulf Boulevard, Belleair Shore, FL 33786.</td>
</tr>
<tr>
<td>Town of Indian Shores</td>
<td>Building Department, 19305 Gulf Boulevard, Indian Shores, FL 33785.</td>
</tr>
<tr>
<td>Town of Kennet City</td>
<td>Town Hall, 6000 54th Avenue North, Kennet City, FL 33709.</td>
</tr>
<tr>
<td>Town of North Redington Beach</td>
<td>Town Hall, 190 173rd Avenue East, North Redington Beach, FL 33708.</td>
</tr>
<tr>
<td>Town of Redington Beach</td>
<td>Town Hall, 105 164th Avenue, Redington Beach, Florida 33708.</td>
</tr>
<tr>
<td>Town of Redington Shores</td>
<td>Town Hall, Building Department, 17425 Gulf Boulevard, Redington Shores, FL 33708.</td>
</tr>
<tr>
<td>Unincorporated Areas of Pinellas County</td>
<td>Pinellas County Building Department, 440 Court Street, Clearwater, FL 33756.</td>
</tr>
</tbody>
</table>

**Gem County, Idaho and Incorporated Areas**

<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Emmet</td>
<td>Public Works and Building Department, 601 East 3rd Street, Emmett, ID 83617.</td>
</tr>
<tr>
<td>Unincorporated Areas of Gem County</td>
<td>Gem County Development Services Department, 109 South McKinley Avenue, Emmett, ID 83617.</td>
</tr>
</tbody>
</table>

**Wabaunsee County, Kansas and Incorporated Areas**

<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Alma</td>
<td>City Hall, 326 Missouri Avenue, Alma, Kansas 66401.</td>
</tr>
<tr>
<td>City of Alta Vista</td>
<td>City Hall, 521 Main Street, Alta Vista, Kansas 66834.</td>
</tr>
<tr>
<td>City of Eskridge</td>
<td>City Hall, 110 South Main Street, Eskridge, Kansas 66423.</td>
</tr>
<tr>
<td>City of Harveyville</td>
<td>City Hall, 274 West Oak Street, Harveyville, Kansas 66431.</td>
</tr>
<tr>
<td>City of McFarland</td>
<td>City Hall, 518 Rock Island Road, McFarland, Kansas 66501.</td>
</tr>
<tr>
<td>City of Paxico</td>
<td>City Hall, 201 Newbury Avenue, Paxico, Kansas 66526.</td>
</tr>
<tr>
<td>Unincorporated Areas of Wabaunsee County</td>
<td>Wabaunsee County Courthouse, 215 Kansas Avenue, Alma, Kansas 66401.</td>
</tr>
</tbody>
</table>

**Mason County, Michigan (All Jurisdictions)**

<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charter Township of Pere Marquette</td>
<td>Pere Marquette Charter Township Hall, 1699 South Pere Marquette Highway, Ludington, MI 49431.</td>
</tr>
<tr>
<td>City of Ludington</td>
<td>City Hall, 400 South Harrison Street, Ludington, MI 49431.</td>
</tr>
<tr>
<td>Township of Grant</td>
<td>Grant Township Hall, 835 West Hoague Road, Manistee, MI 49660.</td>
</tr>
<tr>
<td>Township of Hamlin</td>
<td>Hamlin Township Hall, 3775 North Jbavy Drive, Ludington, MI 49431.</td>
</tr>
<tr>
<td>Township of Summit</td>
<td>Summit Township Hall, 4879 West Deren Road, Ludington, MI 49431.</td>
</tr>
</tbody>
</table>

**Oceana County, Michigan (All Jurisdictions)**

<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Township of Benona</td>
<td>Benona Township Hall, 7169 West Baker Road, Shelby, MI 49455.</td>
</tr>
<tr>
<td>Township of Claybanks</td>
<td>Claybanks Township Hall, 7577 West Cleveland Road, New Era, MI 49446.</td>
</tr>
<tr>
<td>Township of Golden</td>
<td>Golden Township Hall, 5527 West Fox Road, Mears, MI 49436.</td>
</tr>
<tr>
<td>Township of Pentwater</td>
<td>Township Office, 500 North Hancock Street, Pentwater, MI 49449.</td>
</tr>
<tr>
<td>Township of Weare</td>
<td>Weare Township Hall, 6506 North Oceana Drive, Hart, MI 49420.</td>
</tr>
<tr>
<td>Village of Pentwater</td>
<td>Village Office, 327 South Hancock Street, Pentwater, MI 49449.</td>
</tr>
</tbody>
</table>

**Snyder County, Pennsylvania (All Jurisdictions)**

<table>
<thead>
<tr>
<th>Community</th>
<th>Community map repository address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borough of Selinsgrove</td>
<td>Borough Office, 1 North High Street, Selinsgrove, PA 17870.</td>
</tr>
<tr>
<td>Borough of Shamokin Dam</td>
<td>Municipal Building, 42 West 8th Avenue, Shamokin Dam, PA 17876.</td>
</tr>
<tr>
<td>Township of Chapman</td>
<td>Chapman Township Municipal Office, 1151 Wagner Hill Road, Port Trevorton, PA 17874.</td>
</tr>
<tr>
<td>Township of Monroe</td>
<td>Monroe Township Municipal Building, 39 Municipal Drive, Selinsgrove, PA 17870.</td>
</tr>
<tr>
<td>Township of Penn</td>
<td>Penn Township Municipal Building, 228 Clifford Road, Selinsgrove, PA 17870.</td>
</tr>
<tr>
<td>Township of Perry</td>
<td>Perry Town Hall, 18 Hoffman Hill Road, Mount Pleasant Mills, PA 17853.</td>
</tr>
<tr>
<td>Township of Union</td>
<td>Union Township Municipal Building, 1510 McNeess Road, Port Trevorton, PA 17874.</td>
</tr>
</tbody>
</table>
DEPARTMENT OF HOMELAND SECURITY
Transportation Security Administration

Intent To Request Extension From OMB of One Current Public Collection of Information: Law Enforcement Officer (LEO) Reimbursement Request

AGENCY: Transportation Security Administration, DHS.

ACTION: 60-Day notice.

SUMMARY: The Transportation Security Administration (TSA) invites public comment on one currently approved Information Collection Request (ICR), Office of Management and Budget (OMB) control number 1652–0063, abstracted below that we will submit to OMB for an extension in compliance with the Paperwork Reduction Act. The ICR describes the nature of the information collection and its expected burden. The collection involves the reimbursement of expenses incurred by airport operators for the provision of law enforcement officers to support airport checkpoint screening.

DATES: Send your comments by July 9, 2021.

ADDRESSES: Comments may be emailed to TSA@tsa.dhs.gov or delivered to the TSA PRA Officer, Information Technology, TSA–11, Transportation Security Administration, 6595 Springfield Center Drive, Springfield, VA 20598–6011.

FOR FURTHER INFORMATION CONTACT:
Christina A. Walsh at the above address, or by telephone (571) 227–2062.

SUPPLEMENTARY INFORMATION:

Comments Invited

In accordance with the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.), an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The ICR documentation will be available at http://www.reginfo.gov upon its submission to OMB. Therefore, in preparation for OMB review and approval of the following information collection, TSA is soliciting comments to—

1. Evaluate whether the proposed information requirement is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility;
2. Evaluate the accuracy of the agency’s estimate of the burden;
3. Enhance the quality, utility, and clarity of the information to be collected; and
4. Minimize the burden of the collection of information on those who are to respond, including using appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology.

Information Collection Requirement

OMB Control Number 1652–0063; Law Enforcement Officer (LEO) Reimbursement Request. TSA has authority to enter into agreements with participants to reimburse expenses incurred by airport operators for the provision of LEOs in support of screening at airport checkpoints. See 49 U.S.C. 106(l) and (m) and 114(m). Consistent with these authorities, TSA created the LEO Reimbursement Program.

TSA requires participants in the LEO Reimbursement Program to record the details of all reimbursements sought. In order to provide for the orderly tracking of reimbursements, the LEO Reimbursement Program uses TSA Form 3503, LEO Reimbursement Request. The information collected includes, but is not limited to, information regarding the invoice, invoicing point of contact, banking and checkpoint log worksheet.

The LEO Reimbursement Request form is available at www.tsa.gov. Upon completion, participants submit the LEO Reimbursement Request forms directly to the LEO Reimbursement Program via fax, electronic upload (via scanning the document), mail, or in person. Upon receipt, TSA reviews all request for reimbursement forms.

TSA estimates that there will be 294 participant responses monthly, or 3,528 yearly. TSA estimates each respondent will spend approximately one hour to complete the request for reimbursement form, for a total annual hour burden of 3,528 hours.

Christina A. Walsh,
TSA Paperwork Reduction Act Officer, Information Technology.

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

60-Day Notice of Proposed Information Collection: Survey To Assess Operational and Capacity Status of Housing Counseling Agencies Due to Disaster/National Emergency; OMB Control No.: 2502–0615

AGENCY: Office of the Assistant Secretary for Housing—Federal Housing Commissioner, HUD.

ACTION: Notice.

SUMMARY: HUD is seeking approval from the Office of Management and Budget (OMB) for the information collection described below. In accordance with the Paperwork Reduction Act, HUD is requesting comment from all interested parties on the proposed collection of information. The purpose of this notice is to allow for 60 days of public comment.

DATES: Comments Due Date: July 9, 2021.

ADDRESSES: Interested persons are invited to submit comments regarding this proposal. Comments should refer to the proposal by name and/or OMB Control Number and should be sent to: Colette Pollard, Reports Management Officer, QDAM, Department of Housing and Urban Development, 451 7th Street SW, Room 4176, Washington, DC 20410–5000; telephone 202–402–3400 (this is not a toll-free number) or email at Colette.Pollard@hud.gov for a copy of the proposed forms or other available information. Persons with hearing or speech impairments may access this number through TTY by calling the toll-free Federal Relay Service at (800) 877–8339.

FOR FURTHER INFORMATION CONTACT:
Colette Pollard, Reports Management Officer, QDAM, Department of Housing and Urban Development, 451 7th Street SW, Washington, DC 20410; email Colette Pollard at Colette.Pollard@hud.gov or telephone 202–402–3400. This is not a toll-free number. Persons with hearing or speech impairments may access this number through TTY by calling the toll-free Federal Relay Service at (800) 877–8339.

SUPPLEMENTARY INFORMATION: This notice informs the public that HUD is seeking approval from OMB for the information collection described in Section A.
A. Overview of Information Collection

Title of Information Collection: Survey to Assess Operational Status and Capacity of Housing Counseling Agencies Due to a Disaster/National Emergency.

OMB Approval Number: 2502–0615. OMB Expiration Date: May 31, 2021.

Type of Request: Revision of a currently approved collection.

Form Number: None.

Description of the need for the information and proposed use: The Disaster/National Emergency Survey will assess the operational and capacity status of Housing Counseling Agencies impacted by COVID–19 and other disasters and national emergencies. This Survey is necessary to assess the impact of the disasters and national emergencies on the operation of HUD-approved housing counseling agencies. This survey will more accurately assess the current operating status and capacity of housing counseling agencies impacted by disasters or national emergencies. The information collected will be used to identify the needs of the housing counseling agency and to inform OHC about the types of support that would be the most responsive to the needs of agencies and their clients.

Respondents (i.e., affected public): Not-for-profit institutions; Local, State, or Tribal Government.

Estimated Number of Respondents: 1,614.

Estimated Number of Responses: 1,614.

Frequency of Response: 1.

Average Hours per Response: 1.

Total Estimated Burden: 1,614.

B. Solicitation of Public Comment

This notice is soliciting comments from members of the public and affected parties concerning the collection of information described in Section A on the following:

1. Whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility;
2. The accuracy of the agency’s estimate of the burden of the proposed collection of information;
3. Ways to enhance the quality, utility, and clarity of the information to be collected; and
4. Ways to minimize the burden of the collection of information on those who are to respond; including through the use of appropriate automated collection techniques or other forms of information technology, e.g., permitting electronic submission of responses.

HUD encourages interested parties to submit comment in response to these questions.


Janet Golrick,
Acting, Chief of Staff for the Office of Housing—Federal Housing Administration.

[FR Doc. 2021–09854 Filed 5–7–21; 8:43 am]

BILLING CODE 4210–67–P

DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

[FWS–R2–ES–2020–0122; FXES11130200000–212–FF02ENEH00]

Endangered and Threatened Wildlife and Plants; Draft Recovery Plan for Kuenzler Hedgehog Cactus

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Notice of availability; request for comment.

SUMMARY: We, the U.S. Fish and Wildlife Service, announce the availability of our draft recovery plan for Kuenzler hedgehog cactus, a small cactus found in New Mexico. Kuenzler hedgehog cactus is listed as threatened under the Endangered Species Act. We provide this notice to seek comments from the public and Federal, Tribal, State, and local governments.

DATES: To ensure consideration, we must receive written comments on or before July 9, 2021. However, we will accept information about any species at any time.

ADDRESSES: Reviewing documents: You may obtain a copy of the draft recovery plan, recovery implementation strategy, and species status assessment by any one of the following methods:

- Internet: Go to one of the following sites:
  - https://ecos.fws.gov/ecpo/profile/speciesProfile?spcode=Q1WV;
  - https://www.fws.gov/southwest/es/NewMexico/;
  - U.S. mail: Send a request to U.S. Fish and Wildlife Service, New Mexico Ecological Services Field Office (NMESFO), 2105 Osuna NE, Albuquerque, NM 87113.

- Submitting comments: Submit your comments on the draft recovery plan in writing by either of the following methods:

For additional information about submitting comments, see Request for Public Comments and Public Availability of Comments under Supplementary Information.

FOR FURTHER INFORMATION CONTACT: Shawn Sartorius, Field Supervisor, at the above address and phone number, or by email at nmesfo@fws.gov. Individuals who are hearing or speech impaired may call the Federal Relay Service at 1–800–877–8339 for TTY assistance.

SUPPLEMENTARY INFORMATION: We, the U.S. Fish and Wildlife Service (Service), announce the availability of our draft recovery plan for Kuenzler hedgehog cactus (Echinocereus fendleri var. kuenzleri), listed as endangered in 1979 and reclassified to threatened in 2018 under the Endangered Species Act of 1973, as amended (ESA; 16 U.S.C. 1531 et seq.). We request review and comment on this plan from local, State, and Federal agencies; Tribes; and the public. We will also accept any new information on the status of Kuenzler hedgehog cactus throughout the species’ range to assist in finalizing the recovery plan.

Kuenzler hedgehog cactus (Echinocereus fendleri var. kuenzleri) is a small cactus that is endemic to the Sacramento Mountains in Lincoln County, New Mexico, and the Guadalupe Mountains in Eddy County, New Mexico. The draft recovery plan includes specific recovery objective, measurable criteria and management actions that, when achieved, will enable us to consider removing the Kuenzler hedgehog cactus from the Federal List of Endangered and Threatened Wildlife (List).

Background

Section 4(f) of the ESA requires the development of recovery plans for listed species, unless such a plan would not promote the conservation of a particular species. Also pursuant to section 4(f) of the ESA, a recovery plan must, to the maximum extent practicable, include:

1. A description of site-specific management actions as may be necessary to achieve the plan’s goals for the conservation and survival of the species;
2. Objective, measurable criteria that, when met, would support a
These influences pose the greatest risks to the future viability of this species and are largely related to direct impacts such as mortality or removal, and habitat changes exacerbated by changing climatic conditions.

**Recovery Criteria**

The draft recovery criteria are summarized below. For a complete description of the rationale behind the criteria, the recovery strategy, management actions, and estimated time and costs associated with recovery, refer to the Draft Recovery Plan for Kuenzler Hedgehog Cactus (see ADDRESSES for document availability).

The ultimate recovery goal is to remove the Kuenzler hedgehog cactus from the Federal List of Endangered and Threatened Wildlife (i.e., “delist” the species) by ensuring the long-term viability of the species in the wild. In the recovery plan, we define the following criteria for “delisting,” or removal of the species from the List, based on the best available information on the species.

**Delisting Criteria**

**Criterion 1** (Resiliency): Demonstrate a stable or increasing trend in abundance for the northern Sacramento, southern Sacramento, and Guadalupe Mountains core sites (Fort Stanton, Elk, Texas Hills) over a 20-year period.

**Criterion 2** (Redundancy): Maintain a minimum of three geographically separated core sites over a 20-year period.

**Criterion 3** (Representation):

3a. Maintain presence of Kuenzler hedgehog cactus at 80 percent of all known subpopulations (element occurrences) outside of the core sites over a 20-year period, with any extirpations compensated for by newly identified or colonized subpopulations.

3b. Maintain genetic diversity within all core sites as measured by the inbreeding coefficient for individuals within subpopulations (F<sub>IS</sub>) at or within one standard deviation of the F<sub>IS</sub> from viable populations of a closely related cactus species with similar reproductive strategies.

**Request for Public Comments**

Section 4(f) of the ESA requires us to provide public notice and an opportunity for public review and comment during recovery plan development. It is also our policy to request peer review of recovery plans (July 1, 1994; 59 FR 34270). In an appendix to the final recovery plan, we will summarize and respond to the issues raised by the public and peer reviewers. Comments may or may not result in changes to the recovery plan; comments regarding recovery plan implementation will be forwarded as appropriate to Federal or other entities so that they can be taken into account during the course of implementation of recovery actions. Responses to individual commenters will not be provided, but we will provide a summary of how we addressed substantive comments in an appendix to the final recovery plan.

We invite written comments on this draft recovery plan. In particular, we are interested in additional information regarding the current threats to the species, ongoing beneficial management efforts, and the costs associated with implementing the recommended recovery actions. The species status assessment and recovery implementation strategy are accessible as supporting documents for the draft recovery plan, but we are not seeking comments on those documents.

**Public Availability of Comments**

All comments received, including names and addresses, will become part of the administrative record and will be available to the public. Before including your address, phone number, email address, or other personal identifying information in your comment, you should be aware that your entire comment—including your personal identifying information—will be publicly available. If you submit a hard copy comment that includes personal identifying information, you may request at the top of your document that we withhold this information from public review. However, we cannot guarantee that we will be able to do so. Comments and materials we receive will be available, by appointment, for public inspection during normal business hours at our office (see ADDRESSES).

**Authority**

We developed our draft recovery plan and publish this notice under the authority of section 4(f) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.).

Amy L. Lueders,
Regional Director, Southwest Region, U.S. Fish and Wildlife Service.
improvement of the status of listed species to the point at which listing is no longer necessary under the criteria specified in section 4(a)(1) of the Act. The Act requires the development of recovery plans for listed species, unless such a plan would not promote the conservation of a particular species.

Pursuant to section 4(f) of the Act, a recovery plan must, to the maximum extent practicable, include (1) a description of site-specific management actions as may be necessary to achieve the plan’s goals for the conservation and survival of the species; (2) objective, measurable criteria which, when met, would support a determination under section 4(a)(1) that the species should be removed from the List of Endangered and Threatened Species; and (3) estimates of the time and costs required to carry out those measures needed to achieve the plan’s goal and to achieve intermediate steps toward that goal. The U.S. Fish and Wildlife Service (USFWS) has revised its approach to recovery planning; the revised process is called Recovery Planning and Implementation (RPI). The RPI process is intended to reduce the time needed to develop and implement recovery plans, increase recovery plan relevancy over a longer timeframe, and add flexibility to recovery plans so they can be adjusted to new information or circumstances. Under RPI, a recovery plan will include statutorily required elements (objective, measurable criteria; site-specific management actions; and estimates of time and costs), along with a concise introduction and our strategy for how we plan to achieve species recovery. The RPI recovery plan is supported by a separate Species Status Assessment, or in cases such as this one, a species biological report that provides the background information and threat assessment, which are key to recovery plan development. The essential component to flexible implementation under RPI is producing a separate working document called the Recovery Implementation Strategy (implementation strategy). The implementation strategy steps down from the more general description of actions described in the recovery plan to detail the specific, near-term activities needed to implement the recovery plan. The implementation strategy will be adaptable by being able to incorporate new information without having to concurrently revise the recovery plan, unless changes to statutory elements are required.

Mount Charleston blue butterfly was federally listed as endangered under the Act in 2013 (USFWS 2013). USFWS designated critical habitat for the species in 2015 (USFWS 2015). Mount Charleston blue butterfly is endemic to the Spring Mountains in southern Nevada. Evidence of decreasing range and population size and the presence of ongoing threats to Mount Charleston blue butterfly resulted in its listing as endangered. The majority of the historic range and all currently occupied locations of the Mount Charleston blue butterfly are on lands managed by the Spring Mountains National Recreation Area, Humboldt-Toiyabe National Forest, United States Department of Agriculture Forest Service (Forest Service). Therefore, close coordination and cooperation will need to occur between the USFWS and Forest Service for recovery to be successful. Here we describe a draft recovery plan for the conservation and survival of the Mount Charleston blue butterfly.

Threats facing the Mount Charleston blue butterfly increase the risk of extinction of the subspecies, given its few occurrences in a small area. The largest threats to Mount Charleston blue butterfly are the loss and degradation of habitat due to changes in natural fire regimes and succession, the implementation of recreational development projects and fuels reduction projects, and the increases in nonnative plants. These threats are likely to be exacerbated by the impact of climate change, which is anticipated to increase drought and extreme precipitation events.

**Recovery Strategy**

The purpose of a recovery plan is to provide a framework for the recovery of a species so that protection under the Act is no longer necessary. A recovery plan includes scientific information about the species and provides criteria that enable us to gauge whether downlisting or delisting the species may be warranted. Furthermore, recovery plans help guide our recovery efforts by describing actions we consider necessary for each species’ conservation and by estimating time and costs for implementing needed recovery measures.

The primary threats to be addressed through this recovery strategy are the loss and degradation of habitat due to changes in natural fire regimes and succession, the implementation of recreational development projects and fuels reduction projects, feral horses, and the increases in nonnative plants. Habitat for Mount Charleston blue butterfly may be increased through properly sited and implemented management actions to favor optimal habitat quantity, quality, and patch arrangement. Where appropriate, habitat
that once existed may be restored; habitat that currently exists should be protected and may be enhanced or augmented; and, where conditions are suitable, new habitat may be created. After an evaluation is completed, population growth and connectivity may be assisted with translocation, if necessary, to ensure conservation and expedite recovery of the Mount Charleston blue butterfly. Evaluations, monitoring, and research will be implemented to inform decisions towards the recovery goal.

To downlist to threatened status and ultimately delist the Mount Charleston blue butterfly will require active and ongoing protection of existing populations and occupied habitat, and discovered or established new habitat. Additional habitat and locations that can be categorized as known occupied are critical to ensure Mount Charleston blue butterfly life history processes, population growth, and connectivity will occur, thereby ensuring the genetic diversity of the species, sufficiently large populations to withstand stochastic events, and a sufficiently large number of populations to provide a safety margin to withstand catastrophic events.

Request for Public Comments

We request written comments on the draft recovery plan described in this notice. All comments received by the date specified in DATES will be considered in development of a final recovery plan for Mount Charleston blue butterfly. You may submit written comments and information by mail or email to the Southern Nevada Fish and Wildlife Office at the above address (see ADDRESSES).

Public Availability of Comments

Before including your address, phone number, email address, or other personal identifying information in your comment, you should be aware that your entire comment—including your personal identifying information—may be made publicly available at any time. While you can ask us in your comment to withhold your personal identifying information from public review, we cannot guarantee that we will be able to do so.

Authority

We developed this recovery plan and publish this notice under the authority of section 4(f) of the Act, 16 U.S.C. 1533(f).

Paul Souza, 
Regional Director, Pacific Southwest Region. 
[FR Doc. 2021–09763 Filed 5–7–21; 8:45 am]

BILLING CODE 4333–15–P

DEPARTMENT OF THE INTERIOR

Bureau of Indian Affairs 
[212A21000D/AAKC001030/ 
ADAS01010.999990]

Rate Adjustments for Indian Irrigation Projects

AGENCY: Bureau of Indian Affairs, Interior.

ACTION: Notice.

SUMMARY: The Bureau of Indian Affairs (BIA) owns or has an interest in irrigation projects located on or associated with various Indian reservations throughout the United States. We are required to establish irrigation assessment rates to recover the costs to administer, operate, maintain, and rehabilitate these projects. We request your comments on the proposed rate adjustments.

DATES: Interested parties may submit comments on the proposed rate adjustments on or before July 9, 2021.

ADDRESSES: You may send comments on the proposed rate adjustments via email to comments@bia.gov. Please reference “Rate Adjustments for Indian Irrigation Projects” in the subject line. Or you may submit comments to the Chief, Division of Water and Power, Office of Trust Services, 13922 Denver West Parkway, Suite 300, Lakewood, Colorado 80401.

For details about a particular irrigation project, please use the tables in the SUPPLEMENTARY INFORMATION section to contact the regional or local office where the project is located.

SUPPLEMENTARY INFORMATION: The first table in this notice provides contact information for individuals who can give further information about the irrigation projects covered by this notice. The second table provides the proposed rates for calendar year (CY) 2022 for all irrigation projects.

What is the meaning of the key terms used in this notice?

In this notice: Administrative costs mean all costs we incur to administer our irrigation projects at the local project level and are a cost factor included in calculating your operation and maintenance assessment. Costs incurred at the local project level do not normally include agency, region, or central office costs unless we state otherwise in writing. Assessable acre means lands designated by us to be served by one of our irrigation projects, for which we collect assessments in order to recover costs for the provision of irrigation service. (See total assessable acres.) BIA means the Bureau of Indian Affairs.

Bill means our statement to you of the assessment charges and/or fees you owe the United States for administration, operation, maintenance, and/or rehabilitation. The date we mail or hand-deliver your bill will be stated on it.

Costs means the costs we incur for administration, operation, maintenance, and rehabilitation to provide direct support or benefit to an irrigation facility. (See administrative costs, operation costs, maintenance costs, and rehabilitation costs).

Customer means any person or entity to whom or to which we provide irrigation service.

Due date is the date on which your bill is due and payable. This date will be stated on your bill.

I, me, my, you and your mean all persons or entities that are affected by this notice.

Irrigation project means a facility or portion thereof for the delivery, diversion, and storage of irrigation water that we own or have an interest in, including all appurtenant works. The term “irrigation project” is used interchangeably with irrigation facility, irrigation system, and irrigation area.

Irrigation service means the full range of services we provide customers of our irrigation projects. This includes our activities to administer, operate, maintain, and rehabilitate our projects in order to deliver water.

Maintenance costs means costs we incur to maintain and repair our irrigation projects and associated equipment and is a cost factor included in calculating your operation and maintenance assessment.

Operation and maintenance (O&M) assessment means the periodic charge you must pay us to reimburse costs of administering, operating, maintaining, and rehabilitating irrigation projects consistent with this notice and our supporting policies, manuals, and handbooks.

Operation or operating costs means costs we incur to operate our irrigation projects and equipment and is a cost factor included in calculating your O&M assessment.

Past due bill means a bill that has not been paid by the close of business on the 30th day after the due date as stated
on the bill. Beginning on the 31st day after the due date, we begin assessing additional charges accruing from the due date.

Rehabilitation costs means costs we incur to restore our irrigation projects or features to original operating condition or to the nearest state which can be achieved using current technology and is a cost factor included in calculating your O&M assessment.

Responsible party means an individual or entity that owns or leases land within the assessable acreage of one of our irrigation projects and is responsible for providing accurate information to our billing office and paying a bill for an annual irrigation rate assessment.

Total assessable acres mean the total acres served by one of our irrigation projects.

Water delivery is an activity that is part of the irrigation service we provide our customers when water is available.

We, us, and our mean the United States Government, the Secretary of the Interior, the BIA, and all who are authorized to represent us in matters covered under this notice.

Does this notice affect me?

This notice affects you if you own or lease land within the assessable acreage of one of our irrigation projects or if you have a carriage agreement with one of our irrigation projects.

Where can I get information on the regulatory and legal citations in this notice?

You can contact the appropriate office(s) stated in the tables for the irrigation project that serves you, or you can use the internet site for the Government Publishing Office at http://www.gpo.gov.

Why are you publishing this notice?

We are publishing this notice to inform you that we propose to adjust our irrigation assessment rates. This notice is published in accordance with the BIA’s regulations governing its operation and maintenance of irrigation projects, found at 25 CFR part 171. This regulation provides for the establishment and publication of the proposed rates for annual irrigation assessments as well as related information about our irrigation projects.

What authorizes you to issue this notice?

Our authority to issue this notice is vested in the Secretary of the Interior by 5 U.S.C. 301 and the Act of August 14, 1914 (38 Stat. 583; 25 U.S.C. 385). The Secretary has in turn delegated this authority to the Assistant Secretary—Indian Affairs under Part 209, Chapter 8.1A, of the Department of the Interior’s Departmental Manual.

When will you put the rate adjustments into effect?

We will put the rate adjustments into effect for CY 2022.

How do you calculate irrigation rates?

We calculate annual irrigation assessment rates in accordance with 25 CFR part 171.500 by estimating the annual costs of operation and maintenance at each of our irrigation projects and then dividing by the total assessable acres for that particular irrigation project. The result of this calculation for each project is stated in the rate table in this notice.

What kinds of expenses do you consider in determining the estimated annual costs of operation and maintenance?

Consistent with 25 CFR part 171.500, these expenses include the following:

(a) Personnel salary and benefits for the project engineer/manager and project employees under the project engineer/manager’s management or control;
(b) Materials and supplies;
(c) Vehicle and equipment repairs;
(d) Equipment costs, including lease fees;
(e) Depreciation;
(f) Acquisition costs;
(g) Maintenance of a reserve fund available for contingencies or emergency costs needed for the reliable operation of the irrigation facility infrastructure;
(h) Maintenance of a vehicle and heavy equipment replacement fund;
(i) Systematic rehabilitation and replacement of project facilities;
(j) Contingencies for unknown costs and omitted budget items; and
(k) Other expenses we determine necessary to properly perform the activities and functions characteristic of an irrigation project.

When should I pay my irrigation assessment?

We will mail or hand deliver your bill notifying you (a) the amount you owe to the United States and (b) when such amount is due. If we mail your bill, we will consider it as being delivered no later than five business days after the day we mail it. You should pay your bill by the due date stated on the bill.

What information must I provide for billing purposes?

All responsible parties are required to provide the following information to the billing office associated with the irrigation project where you own or lease land within the project’s assessable acreage or to the billing office associated with the irrigation project with which you have a carriage agreement:

(1) The full legal name of the person or entity responsible for paying the bill;
(2) An adequate and correct address for mailing or hand delivering our bill; and
(3) The taxpayer identification number or social security number of the person or entity responsible for paying the bill.

Why are you collecting my taxpayer identification number or social security number?

Public Law 104–134, the Debt Collection Improvement Act of 1996, requires that we collect the taxpayer identification number or social security number before billing a responsible party and as a condition to servicing the account.

What happens if I am a responsible party but I fail to furnish the information required to the billing office responsible for the irrigation project within which I own or lease assessable land or for which I have a carriage agreement?

If you are late paying your bill because of your failure to furnish the required information listed above, you will be assessed interest and penalties as provided below, and your failure to provide the required information will not provide grounds for you to appeal your bill or any penalties assessed.

What can happen if I do not provide the information required for billing purposes?

We can refuse to provide you irrigation service.

If I allow my bill to become past due, could this affect my water delivery?

Yes. 25 CFR 171.545(a) states: “We will not provide you irrigation service until: (1) Your bill is paid; or (2) You make arrangement for payment pursuant to §171.550 of this part.” If we do not receive your payment before the close of business on the 30th day after the due date stated on your bill, we will send you a past due notice. This past due notice will have additional information concerning your rights. We will consider your past due notice as delivered no later than five business
days after the day we mail it. We follow the procedures provided in 31 CFR 901.2, “Demand for Payment,” when demanding payment of your past due bill.

Are there any additional charges if I am late paying my bill?

Yes. We are required to assess interest, penalties, and administrative costs on past due bills in accordance with 31 U.S.C. 3717 and 31 CFR 901.9. The rate of interest is established annually by the Secretary of the United States Treasury (Treasury) and accrues from the date your bill is past due. If your bill becomes more than 90 days past due, you will be assessed a penalty charge of no more than six percent per year, which accrues from the date your bill became past due. Each time we try to collect your past due bill, you will be charged an administrative fee of $12.50 for processing and handling.

What else will happen to my past due bill?

If you do not pay your bill or make payment arrangements to which we agree, we are required to transfer your past due bill to Treasury for further action. Pursuant to 31 CFR 285.12, bills that are 120 days past due will be transferred to Treasury.

Who can I contact for further information?

The following tables are the regional and project/agency contacts for our irrigation facilities.

<table>
<thead>
<tr>
<th>Project name</th>
<th>Project project/agency contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Northwest Region Contacts</strong></td>
<td></td>
</tr>
<tr>
<td>Bryan Mercier, Regional Director, Bureau of Indian Affairs, Northwest Regional Office, 911 NE 11th Avenue, Portland, OR 97232–4169, Telephone: (503) 231–6702.</td>
<td></td>
</tr>
<tr>
<td>Flathead Indian Irrigation Project</td>
<td>Larry Nelson, Acting Irrigation Project Manager, P.O. Box 40, Pablo, MT 59855, Telephone: (406) 745–2661 Project Manager.</td>
</tr>
<tr>
<td>Fort Hall Irrigation Project</td>
<td>Tim Gardner, Acting Irrigation Project Manager, Building #2 Bannock Avenue, Fort Hall, ID 83203–0220, Telephone: (208) 238–1992.</td>
</tr>
<tr>
<td>Wapato Irrigation Project</td>
<td>Pete Plant, Project Administrator, 413 South Camas Avenue, Wapato, WA 98951–0220, Telephone: (509) 877–3155 Project Administrator.</td>
</tr>
<tr>
<td><strong>Rocky Mountain Region Contacts</strong></td>
<td></td>
</tr>
<tr>
<td>Susan Messerly, Regional Director, Bureau of Indian Affairs, Rocky Mountain Regional Office, 2021 4th Avenue North, Billings, MT 59101, Telephone: (406) 247–7943.</td>
<td></td>
</tr>
<tr>
<td>Blackfeet Irrigation Project</td>
<td>Thedis Crowe, Superintendent, Greg Tatsey, Irrigation Project Manager, Box 880, Browning, MT 59417, Telephones: (406) 338–7544 Superintendent, (406) 338–7519 Irrigation Project Manager.</td>
</tr>
<tr>
<td>Crow Irrigation Project</td>
<td>Clifford Serawop, Superintendent, Richard Green, Irrigation Project Manager, (Project operation &amp; maintenance performed by Water Users Association), P.O. Box 69, Crow Agency, MT 59022, Telephones: (406) 638–2672 Superintendent, (406) 247–7469 Irrigation Project Manager.</td>
</tr>
<tr>
<td>Fort Peck Irrigation Project</td>
<td>Anna Eder, Superintendent, Jim Gappa, Acting Irrigation Project Manager, (Project operation &amp; maintenance performed by Fort Peck Water Users Association), P.O. Box 637, Poplar, MT 59526, Telephones: (406) 768–5312 Superintendent, (406) 653–1279, (406) 892–2505 Huber Wright—Lead ISO.</td>
</tr>
<tr>
<td>Wind River Irrigation Project</td>
<td>Leslie Shakespeare, Superintendent, Jim Gappa, Acting Irrigation Project Manager, (Project operation &amp; maintenance for Little Wind, Johnstown, and Lefthand Units contracted to Wind River Tribes under PL 93–638; Little Wind-Ray and Upper Wind Units operation &amp; maintenance performed by Ray Canal, A Canal, and Crowheart Water Users Associations), P.O. Box 158, Fort Washakie, WY 82514, Telephones: (307) 332–7810 Superintendent, (406) 247–7998 Acting Irrigation Project Manager.</td>
</tr>
<tr>
<td><strong>Southwest Region Contacts</strong></td>
<td></td>
</tr>
<tr>
<td>Patricia L. Mattingly, Regional Director, Bureau of Indian Affairs, Southwest Regional Office, 1001 Indian School Road, Albuquerque, NM 87104, Telephone: (505) 563–3100.</td>
<td></td>
</tr>
<tr>
<td><strong>Western Region Contacts</strong></td>
<td></td>
</tr>
<tr>
<td>Bryan Bowker, Regional Director, Bureau of Indian Affairs, Western Regional Office, 2600 North Central Avenue, 4th Floor Mailroom, Phoenix, AZ 85004, Telephone: (602) 379–6600.</td>
<td></td>
</tr>
<tr>
<td>Colorado River Irrigation Project</td>
<td>Davetta Ameelyenah, Superintendent, Gary Colvin, Irrigation Project Manager, 12124 1st Avenue, Parker, AZ 85344, Telephone: (928) 669–7111.</td>
</tr>
</tbody>
</table>
The rate table below contains current final CY 2021 rates for irrigation projects where we recover costs of administering, operating, maintaining, and rehabilitating them. The table also contains proposed CY 2022 rates for all irrigation projects. An asterisk immediately following the rate category notes irrigation projects where rates are proposed for adjustment.

### Northwest Region Rate Table

<table>
<thead>
<tr>
<th>Project name</th>
<th>Rate category</th>
<th>Final 2021 rate</th>
<th>Proposed 2022 rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flathead Irrigation Project</td>
<td>Basic per acre—A</td>
<td>$33.50</td>
<td>$33.50</td>
</tr>
<tr>
<td>Fort Hall Irrigation Project</td>
<td>Basic per acre—B</td>
<td>16.75</td>
<td>16.75</td>
</tr>
<tr>
<td>Fort Hall Irrigation Project—Minor Units</td>
<td>Minimum Charge per bill</td>
<td>75.00</td>
<td>75.00</td>
</tr>
<tr>
<td>Fort Hall Irrigation Project—Michaud Unit</td>
<td>Minimum Charge per bill</td>
<td>39.00</td>
<td>40.00</td>
</tr>
<tr>
<td>Wapato Irrigation Project—Toppenish/Simcoe Units</td>
<td>Minimum Charge per bill</td>
<td>39.00</td>
<td>40.00</td>
</tr>
<tr>
<td>Wapato Irrigation Project—Ahtanum Units</td>
<td>Minimum Charge per bill</td>
<td>30.00</td>
<td>30.00</td>
</tr>
<tr>
<td>Wapato Irrigation Project—Satus Unit</td>
<td>Minimum Charge per bill</td>
<td>30.00</td>
<td>30.00</td>
</tr>
<tr>
<td>Wapato Irrigation Project—Additional Works</td>
<td>Minimum Charge per bill</td>
<td>75.00</td>
<td>75.00</td>
</tr>
<tr>
<td>Wapato Irrigation Project—Water Rental</td>
<td>Basic per acre</td>
<td>86.00</td>
<td>86.00</td>
</tr>
</tbody>
</table>

### Rocky Mountain Region Rate Table

<table>
<thead>
<tr>
<th>Project name</th>
<th>Rate category</th>
<th>Final 2021 rate</th>
<th>Proposed 2022 rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackfeet Irrigation Project</td>
<td>Basic-per acre</td>
<td>20.50</td>
<td>20.50</td>
</tr>
<tr>
<td>Crow Irrigation Project—Willow Creek O&amp;M (includes Agency, Lodge Grass #1, Lodge Grass #2, Reno, Upper Little Hem, and Forty Mile Units)</td>
<td>Basic-per acre</td>
<td>28.50</td>
<td>28.50</td>
</tr>
<tr>
<td>Crow Irrigation Project—All Others (includes Bighorn, Soap Creek, and Pryor Units)</td>
<td>Basic-per acre</td>
<td>28.50</td>
<td>28.50</td>
</tr>
<tr>
<td>Crow Irrigation Project—Two Leggins Unit</td>
<td>Basic-per acre</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td>Wind River Irrigation Project—Units 2, 3 and 4</td>
<td>Basic-per acre</td>
<td>27.00</td>
<td>27.00</td>
</tr>
<tr>
<td>Wind River Irrigation Project—Unit 6</td>
<td>Basic-per acre</td>
<td>25.00</td>
<td>25.00</td>
</tr>
<tr>
<td>Wind River Irrigation Project—LeClaire District (See Note #1)</td>
<td>Basic-per acre</td>
<td>47.00</td>
<td>47.00</td>
</tr>
<tr>
<td>Wind River Irrigation Project—Crow Heart Unit</td>
<td>Basic-per acre</td>
<td>16.50</td>
<td>16.50</td>
</tr>
<tr>
<td>Wind River Irrigation Project—A Canal Unit</td>
<td>Basic-per acre</td>
<td>16.50</td>
<td>16.50</td>
</tr>
<tr>
<td>Wind River Irrigation Project—Riverton Valley Irrigation District (See Note #1)</td>
<td>Basic-per acre</td>
<td>30.65</td>
<td>30.65</td>
</tr>
</tbody>
</table>

### Southwest Region Rate Table

<table>
<thead>
<tr>
<th>Project name</th>
<th>Rate category</th>
<th>Final 2021 rate</th>
<th>Proposed 2022 rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine River Irrigation Project</td>
<td>Minimum Charge per bill</td>
<td>50.00</td>
<td>50.00</td>
</tr>
</tbody>
</table>
Consultation and Coordination With Tribal Governments (Executive Order 13175)

The Department of the Interior strives to strengthen its government-to-government relationship with Indian Tribes through a commitment to consultation with Indian Tribes and recognition of their right to self-governance and Tribal sovereignty. We have evaluated this notice under the Department’s consultation policy and under the criteria of Executive Order 13175 and have determined there to be substantial direct effects on federally recognized Tribes because the irrigation projects are located on or associated with Indian reservations. To fulfill its consultation responsibility to Tribes and Tribal organizations, BIA communicates, coordinates, and consults on a continuing basis with these entities on issues of water delivery, water availability, and costs of administration, operation, maintenance, and rehabilitation of projects that concern them. This is accomplished at the individual irrigation project by project, agency, and regional representatives, as appropriate, in accordance with local protocol and procedures. This notice is one component of our overall coordination and consultation process to provide notice to, and request comments from, these entities when we adjust irrigation assessment rates.

Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use (Executive Order 13211)

The proposed rate adjustments are not a significant energy action under the definition in Executive Order 13211. A Statement of Energy Effects is not required.

Regulatory Planning and Review (Executive Order 12866)

These proposed rate adjustments are not a significant regulatory action and do not need to be reviewed by the Office of Management and Budget under Executive Order 12866.

Regulatory Flexibility Act

These proposed rate adjustments are not a rule for the purposes of the Regulatory Flexibility Act because they establish “a rule of particular applicability relating to rates.”

Unfunded Mandates Reform Act of 1995

These proposed rate adjustments do not impose an unfunded mandate on state, local, or Tribal governments in the aggregate, or on the private sector, of more than $130 million per year. They do not have a significant or unique effect on State, local, or Tribal governments or the private sector. Therefore, the Department is not required to prepare a statement containing the information required by the Unfunded Mandates Reform Act (2 U.S.C. 1531 et seq.).

Takings (Executive Order 12630)

These proposed rate adjustments do not effect a taking of private property or otherwise have “ takings” implications under Executive Order 12630. The proposed rate adjustments do not deprive the public, State, or local governments of rights or property.

Federalism (Executive Order 13132)

Under the criteria in section 1 of Executive Order 13132, these proposed rate adjustments do not have sufficient federalism implications to warrant the preparation of a federalism summary impact statement because they will not affect the States, the relationship between the national government and the States, or the distribution of power and responsibilities among the various levels of government. A federalism summary impact statement is not required.

Civil Justice Reform (Executive Order 12988)

This notice complies with the requirements of Executive Order 12988. Specifically, in issuing this notice, the Department has taken the necessary steps to eliminate drafting errors and ambiguity, minimize potential litigation, and provide a clear legal standard for affected conduct as required by section 3 of Executive Order 12988.

Paperwork Reduction Act of 1995

These proposed rate adjustments do not affect the collections of information which have been approved by the Office of Information and Regulatory Affairs, Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995. The OMB Control Number is 1076–0141 and expires January 31, 2023.

National Environmental Policy Act

The Department has determined that these proposed rate adjustments do not constitute a major Federal action, of significantly affecting the quality of the human environment and that no detailed statement is required under the National Environmental Policy Act of 1969, 42 U.S.C. 4321–4370(d), pursuant to 43 CFR 46.210(i). In addition, the proposed rate adjustments do not present any of the 12 extraordinary circumstances listed at 43 CFR 46.215.

Bryan Newland,
Principal Deputy Assistant Secretary—Indian Affairs.

[FR Doc. 2021–09222 Filed 5–7–21; 8:45 am]

BILLING CODE 4337–15–P

INTERNATIONAL TRADE COMMISSION

[Investigation Nos. 701–TA–525 and 731–TA–1260–1261 (Review)]

Certain Welded Line Pipe From Korea and Turkey; Scheduling of Expedited Five-Year Reviews


ACTION: Notice.

SUMMARY: The Commission hereby gives notice of the scheduling of expedited reviews pursuant to the Tariff Act of 1930 (“the Act”) to determine whether revocation of the countervailing and antidumping duty orders on certain welded line pipe from Korea and Turkey would be likely to lead to continuation or recurrence of material injury within a reasonably foreseeable time.


FOR FURTHER INFORMATION CONTACT: Christopher W. Robinson (202–205–2542), Office of Investigations, U.S. International Trade Commission, 500 E Street SW, Washington, DC 20436. Hearing-impaired persons can obtain information on this matter by contacting the Commission’s TDD terminal on 202–205–1810. Persons with mobility impairments who will need special assistance in gaining access to the Commission should contact the Office of the Secretary at 202–205–0061. General information concerning the Commission may also be obtained by accessing its internet server (https://www.usitc.gov). The public record for these reviews may be viewed on the Commission’s TDD terminal on 202–205–1810. Persons with mobility impairments who will need special assistance in gaining access to the Commission should contact the Office of the Secretary at 202–205–0061. General information concerning the Commission may also be obtained by accessing its internet server (https://www.usitc.gov). The public record for these reviews may be viewed on the Commission’s electronic docket (EDIS) at https://edis.usitc.gov.

SUPPLEMENTARY INFORMATION:

Background.—On February 5, 2021, the Commission determined that the domestic interested party group response to its notice of institution (85 FR 69354, November 2, 2020) of the subject five-year reviews was adequate and that the respondent interested party group response was inadequate. The Commission did not find any other circumstances that would warrant conducting full reviews. Accordingly, the Commission determined that it would conduct expedited reviews pursuant to section 751(c)(3) of the Tariff Act of 1930 (19 U.S.C. 1675(c)(3)).

For further information concerning the conduct of these reviews and rules of general application, consult the Commission’s Rules of Practice and Procedure, part 201, subparts A and B (19 CFR part 201), and part 207, subparts A, D, E, and F (19 CFR part 207).

Please note the Secretary’s Office will accept only electronic filings at this time. Filings must be made through the Commission’s Electronic Document Information System (EDIS, https://edis.usitc.gov). No in-person paper-based filings or paper copies of any electronic filings will be accepted until further notice.

Staff report.—A staff report containing information concerning the subject matter of the reviews will be placed in the nonpublic record on May 11, 2021, and made available to persons on the Administrative Protective Order service list for these reviews. A public version will be issued thereafter, pursuant to section 207.62(d)(4) of the Commission’s rules.

Written submissions.—As provided in section 207.62(d) of the Commission’s rules, interested parties that are parties to the reviews and that have provided individually adequate responses to the notice of institution,2 and any party other than an interested party to the reviews may file written comments with the Secretary on what determination the Commission should reach in the reviews. Comments are due on or before May 18, 2021 and may not contain new factual information. Any person that is neither a party to the five-year reviews nor an interested party may submit a brief written statement (which shall not contain any new factual information) pertinent to the reviews by May 18, 2021. However, should the Department of Commerce (“Commerce”) extend the time limit for its completion of the final results of its reviews, the deadline for

1 A record of the Commissioners’ votes is available from the Office of the Secretary and at the Commission’s website.
2 The Commission has found a joint response to its notice of institution filed on behalf of American Cast Iron Pipe Company, Axis Pipe and Tube, California Steel Industries, IPSCO Tubulars Inc., Maverick Tube Corporation, Stupp Corporation, Tex-Tube Company, and Welspun Tubular LLC, and Wheatland Tube Company, domestic producers of certain welded line pipe, to each be individually adequate. Comments from other interested parties will not be accepted (see 19 CFR 207.62(d)(2)).
DEPARTMENT OF LABOR

Employment and Training Administration

Workforce Information Advisory Council

AGENCY: Employment and Training Administration, Labor.

ACTION: Request for nominations for membership on the Workforce Information Advisory Council.

SUMMARY: The Department of Labor (DOL) invites interested parties to submit nominations for individuals to serve on the Workforce Information Advisory Council (WIAC) and announces the procedures for those nominations. There are vacant positions on the WIAC representing State agencies with responsibility for workforce investment activities (State Workforce Agency representatives) and representatives of State workforce and labor market information (LMI) directors. While this notice is directed specifically to obtaining nominations for the current vacancies, LMI director and State Workforce Agency representatives, individuals qualified for the other five membership categories listed below in the SUPPLEMENTARY INFORMATION section are invited to submit nomination materials, and DOL will consider these nominees in the event that seats in those categories become available. When submitting nomination materials, please indicate the category or categories for which the nominee would like to be considered. Information regarding the WIAC can be found at https://www.dol.gov/agencies/eta/wia/wiac.

DATES: Nominations for individuals to serve on the WIAC must be submitted (postmarked, if sending by mail; submitted electronically; or received, if hand delivered) by June 9, 2021.

ADDRESSES: You may submit nominations and supporting materials described in this Federal Register Notice by the following method:

Electronically: Submit nominations, including attachments, by email using the following address: WIAC@dol.gov (use subject line “Nomination—Workforce Information Advisory Council”). The Department will not accept a document for filing without a certificate of service. The Commission’s Handbook on Filing Procedures, available on the Commission’s website at https://www.usitc.gov/documents/handbook_on_filing_procedures.pdf, elaborates upon the Commission’s procedures with respect to filings.

In accordance with sections 201.16(c) and 207.3 of the rules, each document filed by a party to the reviews must be served on all other parties to the reviews (as identified by either the public or BPI service list), and a certificate of service must be timely filed. The Secretary will not accept a document for filing without a certificate of service.

Determination.—The Commission has determined these reviews are extraordinarily complicated and therefore has determined to exercise its authority to extend the review period by up to 90 days pursuant to 19 U.S.C. 1675(c)(5)(B).

Authority: These reviews are being conducted under authority of title VII of the Tariff Act of 1930; this notice is published pursuant to section 207.62 of the Commission’s rules.

By order of the Commission.

Issued: May 4, 2021.

Lisa Barton, Secretary to the Commission.

FR Doc. 2021–09787 Filed 5–7–21; 8:45 am

BILLING CODE 7020–02–P
(Identification of Eligible Providers of Training Services);
(4) One member who is a representative of economic development entities;
(5) One member who is a representative of businesses, who has been nominated by national business organizations or trade associations;
(6) One member who is a representative of labor organizations, who has been nominated by a national labor federation;
(7) One member who is a representative of local workforce development boards, who has been nominated by a national organization representing such boards; and
(8) One member who is a representative of research entities that use workforce and labor market information.

The Secretary must ensure that the membership of the WIAC is geographically diverse, and that no two members appointed under clauses (1), (2), and (7) above represent the same State. Please note, the members whom the Secretary appoints to fill these vacancies will serve the balance of their predecessors’ unexpired terms, in this case from the date of appointment until March 9, 2023. Members of the Council will serve on a voluntary and generally uncompensated basis, but will be reimbursed for travel expenses to attend WIAC meetings, including per diem in lieu of subsistence, as authorized by the Federal travel regulations.

The WIAC is a permanent advisory council and, as such, is not governed by the Federal Advisory Committee Act’s (FACA) section 14, on termination of advisory committees. In other respects, however, WIAC membership will be consistent with the FACA requirement that membership be “fairly balanced in terms of the points of view represented and the functions to be performed” (5 U.S.C. App. 2, section 5(b)(2)), as specified in Wagner-Peyser section 15(2)(B) & (C), and the requirement that members come from “a cross-section of those directly affected, interested, and qualified, as appropriate to the nature and functions” of the WIAC (41 CFR 102–3.60(b)(3)). Under the FACA regulation, the composition of the WIAC will, therefore, depend upon several factors, including: (i) The WIAC’s mission; (ii) the geographic, ethnic, social, economic, or scientific impact of the WIAC’s recommendations; (iii) the types of specific perspectives required; (iv) the need to obtain divergent points of view on the issues before the WIAC, such as those of consumers, technical experts, the public at large, academia, business, or other sectors; and (v) the relevance of State, local, or tribal governments to the development of the WIAC’s recommendations (41 CFR 102–3, Subpart B, Appendix A.).

To the extent permitted by FACA and other applicable laws, WIAC membership should also be consistent with achieving the greatest impact, scope, and credibility among diverse stakeholders. The diversity in such membership includes, but is not limited to, race, gender, disability, sexual orientation, and gender identity.

Nominations Process: Nominations for a representative of lead State agencies with responsibility for workforce investment activities, or State agencies described in Wagner-Peyser Act section 4 (agency designated or authorized by Governor to cooperate with the Secretary of Labor), must be nominated by such agencies or by a national organization that represents such agencies. Nominations for a representative of State workforce and labor market information directors affiliated with the State agencies responsible for the management and oversight of the workforce and labor market information system as described in Wagner-Peyser Act section 15(e)(2), must be nominated by the directors. To nominate an individual for appointment to the WIAC, please submit, to one of the addresses listed below, the following information:

• A copy of the nominee’s resume or curriculum vitae;
• A cover letter that provides your reason(s) for nominating the individual, the constituency area that they represent (as outlined above in the WIAC membership identification discussion), and their particular expertise for contributing to the national policy discussion on: (1) The evaluation and improvement of the nationwide workforce and labor market information system and statewide systems that comprise the nationwide system, and (2) how the Department of Labor and the States will cooperate in the management of those systems, including programs that produce employment-related statistics and State and local workforce and labor market information; and
• Contact information for the nominee (name, title, business address, business phone, and business email address).

In addition, the cover letter must state the nomination is being made in response to this Federal Register Notice and the nominee (if nominating someone other than oneself) has agreed to be nominated and is willing to serve on the WIAC. Nominations will be appointed based on their qualifications, professional experience, and demonstrated knowledge of issues related to the purpose and scope of the WIAC, as well as diversity considerations. The Department will publish a list of the new WIAC members on the WIAC’s website at https://www.dol.gov/agencies/eta/wioa/wiac.

FOR FURTHER INFORMATION CONTACT:
Steve Rietzke, WIAC Designated Federal Officer, WIAC@DOL.gov.


Suzan G. LeVine,
Principal Deputy Assistant Secretary for Employment and Training Administration, Labor.

[FR Doc. 2021–09792 Filed 5–7–21; 8:45 am]
Program Grantee Allotments Public Comment” in the subject line of the email.

FOR FURTHER INFORMATION CONTACT: Questions on this notice can be submitted to the Employment and Training Administration, Office of Workforce Investment, Attention: Laura Iban˜ez, Unit Chief, (202) 693–3645 or Steven Rietzke, Division Chief at (202) 693–3912, or at NFJP@dol.gov.

Individuals with hearing or speech impairments may access the telephone numbers above via TTY by calling the toll-free Federal Information Relay Service at 1–877–889–5627 (TTY-TDD).

SUPPLEMENTARY INFORMATION: This notice is published according to Section 182(d) of the WIOA, Prompt Allotment of Funds. ETA developed the formula to distribute funds geographically by state service area, based on each state service area’s relative share of persons eligible for the program. The formula’s original methodology is described in the Federal Register notice 64 FR 27390, May 19, 1999. That information is accessible at https://www.federalregister.gov/. In FY 2018, ETA incorporated two modifications to the allotment formula to provide more accurate estimates of each state service area’s relative share of persons eligible for the program. The formula also used updated data from each of the four data files serving as the basis of the formula since 1999. The revised formula methodology is described in the Federal Register notice 83 FR 32151, July 11, 2018.

Beginning in FY 2021, ETA is making two modifications to the allotment formula. These modifications will improve the formula’s accuracy in terms of estimating the true NFJP-eligible population in state service areas, and one of the modifications is necessitated by a recent statutory change to the NFJP eligibility criteria, which Congress enacted in the FY 2021 appropriation. Section II includes further explanation of these modifications. This Notice includes the following sections:

• Section II of this notice provides a discussion of the updated data that will be used to populate the formula and the proposed formula modifications.
• Section III describes the hold-harmless provision for the implementation year and the following years. The hold-harmless provision is designed to provide a staged transition from old to new shares of funding for State service areas.
• Section IV describes minimum funding provisions to address State service areas that would receive less than $60,000.

• Section V describes the application of the formula and the hold-harmless provision using preliminary planning estimates for PY 2021.

This notice represents the first of a two-stage process. Upon receipt of public comments regarding this notice related to the formula methodology and modifications, ETA will consider comments and finalize the formula methodology and results. In the second stage, ETA will publish the final formula and final allotment levels in the Federal Register.

I. Background

The Department is announcing preliminary PY 2021 allotments for the National Farmworker Jobs Program (NFJP). This notice provides information on the amount of funds available during FY 2021 to state service areas awarded grants through Funding Opportunity Announcement FOA–ETA–20–08 for the NFJP Career Services and Training and Housing grants. Funds to implement NFJP are appropriated in the Act. In appropriating these funds, Congress provided $87,083,000 for formula grants (of which $86,946,000 was allotted after $137,000 was set aside for program integrity), $6,256,000 for migrant and seasonal farmworker housing (of which not less than 70 percent shall be for permanent housing), and another $557,000 was set aside for discretionary purposes. Included below is the table listing the preliminary PY 2021 allotments for the NFJP Career Services and Training grants. Individual grants are awarded for Housing as a result of the grants competition and are further distributed according to language in the appropriations law requiring that of the total amount available, not less than 70 percent shall be allocated to permanent housing activities, leaving not more than 30 percent to temporary housing activities.

II. Description of Data Files and Review of PY 2021 Modifications to the Allotment Formula

As with all state planning estimates since 1999, the PY 2021 estimates are based on four data sources:

1. State-level, 2017 hired farm labor expenditure data from the United States Department of Agriculture’s (USDA) Census of Agriculture (COA);
2. Regional-level, 2017 average hourly earnings data from the USDA’s Farm Labor Survey;
3. Regional-level, 2010–2018 demographic data from the ETA’s National Agricultural Workers Survey (NAWS); and,
4. 2015–2019 (5-year file) data from the United States Census Bureau’s American Community Survey (ACS).

A detailed description of how each data source is used within the formula is in the Federal Register notice 64 FR 27390, May 19, 1999). In addition to populating the formula with updated data, ETA is proposing two modifications that will improve the formula’s accuracy in terms of estimating the true NFJP-eligible population in state service areas, and one of the modifications is necessitated by the change to the NFJP eligibility criteria applicable to the PY 2021 appropriation.

1. First, the Act expands program eligibility for grants funded by the PY 2021 appropriation to include farmworkers who are in families with total family incomes at or below 150 percent of the poverty line. Previously, the definition of a low income individual in WIOA section 3(36)(A)(ii) was based on whether the individual was in a family with a total family income that did not exceed the higher of the poverty line or 70 percent of the lower living standard income level. As noted above, a provision to expand program eligibility is included in the appropriations language for FY 2021. It applies to grant activities funded under the PY 2021 awards. Therefore, the FY 2021 allocations will use special tabulations of data from the American Community Survey (ACS) that reflect farmworkers with total family incomes at or below 150 percent of the poverty line. ETA will subsequently revise the FY 2022 guidance regarding the definition of “low-income individual,” as needed if the same provision is not included in subsequent appropriations.

2. Second, and to more closely align the formula with the definition of eligible migrant and seasonal farmworker under WIOA Section 167(i) and 20 CFR 685.110 and clarified in the Training and Employment Guidance Letter 18–16, ETA proposes modifying how the formula accounts for crop workers who are primarily employed in agriculture. Previously, for the formula, a crop worker was considered to be primarily employed in agriculture if (1) at least 50 percent of their total individual income was from farm work, and (2) if they worked at least 25 days or earned at least $800 in crop farm work in the previous 24 months. ETA proposes the formula consider a crop worker to be primarily employed in agriculture if at least 50 percent of their total individual income is from farm work or at least 50 percent of their total employment time is in farm work.1 As

1 To determine “primarily employed in agriculture” criteria, which has two parts, ETA uses individual income from farm work.
The state allotments set forth in the Table appended to this notice reflect the distribution resulting from the allotment formula described above. For PY 2020, $91,896,000 was appropriated for migrant and seasonal farmworker programs, of which $85,229,000 was appropriated for training grants and allotted based on the PY 2018 formula updates. The remaining $6,122,000 of the PY 2020 appropriation was retained to fund housing grants, and $545,000 was retained for Training and Technical Assistance. The figures in the first numerical column show the actual PY 2020 formula allotments to state service areas. The next column shows the percentage share of each allotment to the total available.

For PY 2021, the funding level provided for in the Act for the migrant and seasonal farmworker program is $93,896,000 of which $87,083,000 was appropriated for training grants. After allowable funds are set aside for program integrity ($137,000), the Department will allot $86,946,000 for training grants based on the formula and data outlined in this notice. For purposes of illustrating the effects of the updates to the allotment formula, columns 3 and 4 show the state service area allotments with the application of the first-year (95 percent) hold-harmless and minimum funding provisions, followed by the percentages. The difference between PY 2021 and PY 2020 allotments is shown in column 5. Column 6 of the Table shows the allotments based on the proposed formula without the application of the hold-harmless or minimum funding provisions. The percentages are reported in column 7.
24894

Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Notices
U. S. Department of Labor
Employment and Training Administration
National Farmworker Jobs Program - Career Services and Training Grants
Impact of Proposed Changes on PY 2021 Allotments to States
PY2020
State

Allotment

Percentage
Share

(1)

(2)

PY2021
With hold harmless
Allotment
Per<entage
DUTerence
Share
(PY 2021
vs.PY
(3)
(4)
2020)

Without hold harmless
Allotment
Percentage
Share
(6)

(7)

Total
Alabama
Alaska
Arizona
Arkansas
California
Colorado
Cmmectlcnt
Delaware
Dist of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Mississippi
Missouri
Montana
Nebraska
Nevada
New Hampshire
New Jersey
New Mexico
New York
North Carollna
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
Puerto Rico
Rhode Island
South Ca.-olina
South Dakota
Tmnessee
Texas

Utah

khammond on DSKJM1Z7X2PROD with NOTICES

Vermont
Virginia

Washington
West Virginia
\Visconsin
\Vyoming

VerDate Sep<11>2014

19:05 May 07, 2021

$85,229,000

100.00000

801,605

0.94053
0.00000
2.97804
1.34234
27.37714
1.58052
0.47213
0.18288
0.00000
4.41597
1.96142
0.37788
2.08580
2.04965
1.34430
1.86330
1.43169
1.22519
0.93635
0.38589
0.45370
0.42761
2.49856
1.91238
1.20471
1.15614
0.73746
1.52006
0.22398
0.13562
0.70749
1.23083
1.84793
3.09557
0.97152
1.66341
1.18197
2.87162
1.74344
2.84035
0.07124
0.95188
0.71642
1.04980
6.19736
0.54781
0.21796
1.17635
5.30138
0.18234
1.92396
0.28816

2,538,153
1,144,067
23,333,261
1,347,060
402,388
155,864

3,763,684
1,671,697
322,061
1,777,707
1,746,897
1,145,731
1,588,068
1,220,211
1,044,219
798,040
328,886
386,681
364,444
2,129,494
1,629,902
1,026,761
985,363
628,528
1,295,534
190,893
115,590
602,990
1,049,022
1,574,968
2,638,326
828,016
1,417,710
1,007,381
2,447,454
1,485,920
2,420,800
60,713
811.276
610598
894,737
5,281,950
466,894
185,768
1,002,595
4,518,313
155,408
1,639,775
245597

Jkt 253001

PO 00000

Frm 00056

$86,946,000

100.00000

776,866

0.89350
0.00000
2.82914
1.37243
26.00828
1.91232
0.57652
0.17780
0.00000
4.19517
1.90528
0.35898
2.52412
2.10394
1.41368
2.02054
1.43012
1.16393
0.90013
0.46931
0.59929
0.58977
2.38490
1.81676
1.14447
1.40250
0.80447
1.44406
0.25754
0.16787
0.88544
1.22818
2.49485
2.94079
0.92294
1.65299
1.12287
2.72804
2.02678
2.69833
0.07460
0.90428
0.76566
0.99731
5.88749
0.75217
0.23546
1.11754
5.18758
0.17322
1.97716
0.35946

2,459,822
1,193,276
22,613,160
1,662,689
501,264
154,593

3,647,531
1,656,566
312,122
2,194,625
1,829,288
1,229,140
1,756,778
1,243,435
1,011,993
782,626
408,044
521,061
512,780
2,073,573
1,579,601
995,074
1,219,415
699,452
1,255,552
223,924
145,953
769,856
1,067,856
2,169,172
2,556,903
802,462
1,437,210
976,292
2,371,922
1,762,208
2,346,090
64,858
786,239
665,710
867,124
5,118,941
653,979
204,723
971,653
4,510,391
150,612
1,719,060
312,536

Fmt 4703

Sfmt 4725

$1,717,000

S86,946,000

100.00000

(24,739)

774,531

0.89082
0.00000
2.93049
1.45234
26.58478
2.02367
0.61009
0.18816
0.00000
3.63350
2.01622
0.18130
2.67109
2.22644
1.49599
2.13818
1.51339
0.96170
0.95254
0.49663
0.63419
0.62411
2.52376
1.91448
1.06085
1.48416
0.85131
1.51777
0.27254
0.17764
0.93700
1.29969
2.64011
2.42401
0.89595
1.74924
1.06585
2.68601
2.14479
2.35001
0.07894
0.79943
0.81024
0.72600
5.32570
0.79596
0.24917
0.90245
5.48962
0.12900
2.09228
0.38039

(78,331)
49,209
(720,101)
315,629
98,876
(1,271)

2,547,948
1,262,754
23,114,407
1,759,499
530,450
163,594

(116,153)
(15,131)
(9,939)
416,918
82,391
83,409
168,710
23,224
(32,226)
(15,414)
79,158
134,380
148,336
(55,921)
(50,301)
(31,687)
234,052
70,924
(39,982)
33,031
30,363
166,866
18,834
594,204
(81,423)
(25,554)
19,500
(31,089)
(75,532)
276,288
(74,710)
4,145
(25,037)
55,112
(27,613)
(163,()(19)
187,085
18,955
(30,942)
(7,922)
(4,796)
79,285
66,939

3,159,183
1,753,019
157,635
2,322,406
1,935,797
1,300,706
1,859,065
1,315,834
836,164
828,194
431,802
551,4()0
542,637
2,194,306
1,664,564
922,368
1,290,415
740,177
1,319,642
236,962
154,451
814,680
1,130,032
2,295,471
2,107,580
778,997
1,520,892
926,713
2,335,380
1,864,813
2,043,240
68,635
695,074
704,471
631,232
4,630,482
692,057
216,643
784,640
4,773,008
112,164
1,819,152
330,734

E:\FR\FM\10MYN1.SGM

10MYN1

EN10MY21.372</GPH>

(5)


Suzan G. LeVine, 
Principal Deputy Assistant Secretary, 
Employment and Training, Labor. 
[FR Doc. 2021–09799 Filed 5–7–21; 8:45 am]
BILLING CODE 4510–FN–C

DEPARTMENT OF LABOR

[Docket No. DOL–2021–09669]

Privacy Act of 1974; System of Records

AGENCY: Transition Assistance Program, Veterans’ Training and Employment Service, Department of Labor.

ACTION: Notice of a new system of records.

SUMMARY: Employment Navigators will be located on-site at specific military installations. Their primary duty is to assist transitioning service members by finding suitable employment before the transition to the civilian workforce occurs. This can be done directly, or with assistance from an approved Veterans’ Employment and Training Service (VETS) partner entity. A cloud-based case management system is required to collect certain key data elements, including personally identifiable (PII) information, for the purposes of employment outcome analysis and return on investment calculations. Because of the nature of geographic spread of Employment Navigators, Transition Assistance Program (TAP) partners, and VETS staff, a cloud-based data entry and reporting system must be available to all users wherever internet access is available. The PII will be matched with external data sources, such as the National Directory of New Hires, to produce validated employment outcomes, as well as reducing burden on Employment Navigators to conduct follow-up assessments with services members or veterans.

DATES: This System of Records Notice (SORN) is effective upon its publication in today’s Federal Register with the exception of the routine uses. The new routine uses will not be effective until June 9, 2021 pending public comment. Comments on the new routine uses or other aspects of the SORN must be submitted on or before June 9, 2021.

ADDRESSES: Submit your comments by one of the following methods:

Instructions: Please submit only one copy of your comments by only one method. All submissions must include the agency’s name and the Docket Number DOL–2021–09669. Please be advised that comments received will become a matter of public record and will be posted without change to http://www.regulations.gov, including any personal information provided. Comments that are mailed must be received by the date indicated for consideration.

Docket: For access to the docket to read background documents or comments, go to the Federal e-Rulemaking Portal at http://www.regulations.gov.

FOR FURTHER INFORMATION CONTACT:

SUPPLEMENTARY INFORMATION: The proposed system will be vital to safeguarding the information collected while receiving services from an Employment Navigator, or approved partner. This is a new DOL data collection system.

SYSTEM NAME AND NUMBER:

Employment Navigator Case Management System; DOL/VETS–7

SECURITY CLASSIFICATION:
None.

SYSTEM LOCATION:
Primary location: Offices in various components within the U.S. Department of Labor, at the Frances Perkins Building, 200 Constitution Avenue NW, Washington, DC 20210, or other Department offices. Additionally, duplicate versions of some or all system information may also be at satellite locations where VETS has granted direct access to support VETS operations, system backup, emergency preparedness, and/or continuity of operations. To determine the location of particular program records, contact the system manager, listed in section “SYSTEM MANAGER(S)” below.

SYSTEM MANAGER(S):


AUTHORITY FOR MAINTENANCE OF THE SYSTEM:

Defense Manpower Data Center Data Base, November 23, 2011, 76 FR 72391; 38 U.S.C. 4102, Job Counseling, Training, and Placement Service for Veterans; and 10 U.S.C. 1142, Pre-separation Counseling; E.O. 9397. And pursuant to 10 U.S.C. § 1144 Employment assistance, job training assistance, and other transitional services: Department of Labor. The above referenced section requires DOL to “establish and maintain a program to furnish counseling, assistance in identifying employment and training opportunities, help in obtaining such employment and training, and other related information and services to members of the armed forces under the jurisdiction of the Secretary concerned who are being separated from active duty and the spouses of such members.” However, there is currently no way to measure the effectiveness or capture best practices of this requirement. Congress and the Office of Management and Budget have mentioned a great desire for DOL to be able to provide return-on-investment performance metrics for this program requirement. This requires analyzing data pertaining to all transitioning service members. The Department of Defense maintains this dataset, and will share the information with DOL through an established Memorandum of Understanding.

PURPOSE(S) OF THE SYSTEM:

The purpose of the proposed system is to enable transitioning service members and recently separated veterans’ assistance in finding the best-fit career as quickly as possible. The system will allow Employment Navigators and partners to capture necessary information for DOL to conduct employment outcome analysis. The case management/reporting system should have three separate functions, with three separate roles assigned to users. The first module will allow for Employment Navigators to enter individual record data for each participant (transitioning service member) into the system. This information will be personal characteristics, services offered, and/or referral information. The second module will be accessible by TAP partner-entities who will provide information on services they provided, and outcomes such as job placements, occupation employed in, and wages
POLICIES AND PRACTICES FOR RETENTION AND
RECORDS:

Each record maintained in the system will represent one transitioning service member/recently separated veteran. Routine uses for Employment Navigators and/or TAP partner entities at the time of service. Additional employment and earnings data will come from the NDNH.

CATEGORIES OF RECORDS IN THE SYSTEM:

Data stored in this system include those captured by Employment Navigators and/or TAP partner entities at the time of service. Additional employment and earnings data will come from the NDNH.

CATEGORIES OF INDIVIDUALS COVERED BY THE
SYSTEM:

Exiting service members participating in the United States Department of Defense (DOD) Pre-separation Counseling of the Transition Assistance Program (TAP) who complete documentation.

ADMINISTRATIVE, TECHNICAL, AND PHYSICAL
SAFEGUARDS:

The system will require a username and password for all users. The system will also feature cloud-based security protocols, and servers will be located in a secure physical location.

RECORD ACCESS PROCEDURES:

A request for access should be mailed or emailed to the system manager.

CONTESTING RECORD PROCEDURES:

A petition for amendment should be mailed or emailed to the system manager.

NOTIFICATION PROCEDURES:

Inquiry requests should be mailed or emailed to the system manager.

EXEMPTIONS PROMULGATED FOR THE SYSTEM:

None.

HISTORY:

A 60-day notice has been published to the Federal Register, and is available to be viewed here: https://www.federalregister.gov/documents/2020/07/29/2020-16378/agency-information-collection-activities-comment-request.

Rachana Desai Martin,
Senior Agency Official for Privacy. Deputy Assistant Secretary for Policy, Office of the Assistant Secretary for Administration and Management, Department of Labor.

BILLING CODE 4510-79-P

DEPARTMENT OF LABOR

Mine Safety and Health Administration

Petition for Modification of Application of Existing Mandatory Safety Standards

AGENCY: Mine Safety and Health Administration, Labor.

ACTION: Notice.

SUMMARY: This notice is a summary of a petition for modification submitted to the Mine Safety and Health Administration (MSHA) by the party listed below.

DATES: All comments on the petition must be received by MSHA’s Office of Standards, Regulations, and Variances on or before June 9, 2021.

ADDRESSES: You may submit your comments including the docket number of the petition by any of the following methods:

1. Electronic Mail: zzMSHA-comments@dol.gov. Include the docket number of the petition in the subject line of the message.


3. Regular Mail or Hand Delivery: MSHA, Office of Standards, Regulations, and Variances, 201 12th Street South, Suite 4E401, Arlington, Virginia 22202–5452, Attention: S. Aromie Noe, Acting Deputy Director, Office of Standards, Regulations, and Variances. Persons delivering documents are required to check in at the receptionist’s desk in Suite 4E401. Individuals may inspect copies of the petition and comments during normal business hours at the address listed above.

MSHA will consider only comments postmarked by the U.S. Postal Service or proof of delivery from another delivery service such as UPS or Federal Express on or before the deadline for comments.

FOR FURTHER INFORMATION CONTACT: S. Aromie Noe, Office of Standards, Regulations, and Variances at 202–693–9440 (voice), noe.song-ae@dol.gov (email), or 202–693–9441 (facsimile). [These are not toll-free numbers.]

SUPPLEMENTARY INFORMATION: Section 101(c) of the Federal Mine Safety and Health Act of 1977 and Title 30 of the Code of Federal Regulations (CFR) part 44 govern the application, processing, and disposition of petitions for modification.

I. Background

Section 101(c) of the Federal Mine Safety and Health Act of 1977 (Mine Act) allows the mine operator or representative of miners to file a petition to modify the application of any mandatory safety standard to a coal or other mine if the Secretary of Labor determines that:

1. An alternative method of achieving the result of such standard exists which will at all times guarantee no less than the same measure of protection afforded the miners of such mine by such standard; or

2. The application of such standard to such mine will result in a diminution of safety to the miners in such mine.

In addition, sections 44.10 and 44.11 of 30 CFR establish the requirements for filing petitions for modification.

II. Petition for Modification


Petitioner: Patton Mining, LLC., P.O. Box 457, Hillsboro Illinois (ZIP 62049).

Mine: Deer Run Mine, MSHA I.D. No. 11–03182, located in Montgomery County, Illinois.

Regulations Affected: 30 CFR 75.503 (Permissible electric face equipment; maintenance); and 18.35(a)(5)(l) (Portable (trailing) cables and cords).

Modification Request: The petitioner requests a modification of 30 CFR
75.503 to increase the maximum length of trailing cables supplying power to permissible equipment used in continuous mining sections. Specifically, the petitioner requests a modification of 30 CFR 18.35(a)(5)(i) to permit an increase in the maximum length of trailing cables supplying power to roof bolters beyond 500 feet. The petitioner asserts this alternate method of compliance will decrease the likelihood of cable damage and therefore enhance safety for miners handling the cable.

The petitioner states that:
(a) Increasing the length of cable supplying power to the roof bolter machines will reduce the frequency that a section power center must be advanced, and thus, lessen handling of the cable, decrease the opportunities for cable damage, and minimize exposure to the miners handling the cable.

The petitioner proposes the following:
(a) This petition shall apply only to trailing cables supplying three-phase, 995-volt power to roof bolters.
(b) The maximum length of the 995-volt trailing cables shall be 950 feet.
(c) The 995-volt trailing cables shall not be smaller than #2 American Wire Gauge (AWG).
(d) A Schweitzer Engineering Laboratories 751A ("SEL–751A") overcurrent protection relay will be used, and a designated official of Patton Mining, LLC shall manage the password protected settings.
(e) All circuit breakers used to protect #2 AWG trailing cables exceeding 700 feet in length shall have instantaneous trip units calibrated to trip at 800 amperes. The trip setting of these circuit breakers shall be password protected, and these circuit breakers shall have permanent, legible labels. Each label shall identify the circuit breaker as being suitable for protecting #2 AWG cables. This label shall be maintained legible.
(f) Replacement instantaneous trip units that are used to protect #2 AWG trailing cables, shall be calibrated to trip at 800 amperes, and this setting shall be password protected.
(g) During each production day, persons designated by the operator shall visually examine the trailing cables to ensure that the cables are in safe operating condition.
(h) Any trailing cable that is not in safe operating condition shall be removed from service immediately and shall be repaired or replaced.
(i) Each splice or repair in the trailing cables shall be made in a workmanlike manner and in accordance with the instructions of the manufacturer of the splice or repair materials. The splice or repair shall comply with 30 CFR 75.603 and 75.604.
(j) Permanent warning labels shall be installed and maintained on the cover(s) of the power center identifying the location of each password protected short-circuit protection device. These labels shall warn miners not to change or alter the short-circuit settings.
(k) The petitioner’s alternative method shall not be implemented until miners designated to examine the integrity of the settings, verify the short-circuit settings, examine trailing cables for defects and damage according to the proper procedure have received specified training.
(l) Within sixty (60) days after this petition is granted, the petitioner shall propose revisions to the mine’s training plans approved under 30 CFR part 48 and submit the proposed revisions to the Coal Mine Safety and Health District Manager for the area where the mine is located. The training shall include the following elements:
1. Training in mining methods and operating procedures that will protect the trailing cables against damage;
2. Training in the proper procedures for examining the trailing cables to ensure the cables are in safe operating condition;
3. Training in hazards of setting the instantaneous circuit breakers too high to adequately protect the trailing cables; and
4. Training in how to verify the circuit interrupting device(s) protecting the trailing cable(s) are properly set and maintained.

The petitioner asserts that the alternate method proposed will at all times guarantee no less than the same measure of protection afforded the miners under the mandatory standards.

Song-ae Aromie Noe,
Acting Deputy Director, Office of Standards, Regulations, and Variances.
[FR Doc. 2021–09796 Filed 5–7–21; 8:45 am]
BILLING CODE 4520–43–P

DEPARTMENT OF LABOR
Mine Safety and Health Administration
[OMB Control No. 1219–0120]

Proposed Extension of Information Collection; Occupational Noise Exposure

AGENCY: Mine Safety and Health Administration, Labor.

ACTION: Request for public comments.

SUMMARY: The Department of Labor, as part of its continuing effort to reduce paperwork and respondent burden, conducts a pre-clearance consultation program to provide the general public and Federal agencies with an opportunity to comment on proposed collections of information in accordance with the Paperwork Reduction Act of 1995. This program helps to ensure that requested data can be provided in the desired format, reporting burden (time and financial resources) is minimized, collection instruments are clearly understood, and the impact of collection requirements on respondents can be properly assessed. Currently, the Mine Safety and Health Administration (MSHA) is soliciting comments on the information collection for Occupational Noise Exposure.

DATES: All comments must be received on or before July 9, 2021.

ADDRESSES: You may submit comment as follows. Please note that late, untimely filed comments will not be considered.

Electronic Submissions: Submit electronic comments in the following way:
• Federal eRulemaking Portal: https://www.regulations.gov. Follow the instructions for submitting comments for docket number MSHA–2021–0004. Comments submitted electronically, including attachments, to https://www.regulations.gov will be posted to the docket, with no changes. Because your comment will be made public, you are responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be posted, such as your or anyone else’s Social Security number or confidential business information.
• If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission.

Written/Paper Submissions: Submit written/paper submissions in the following way:
• Mail/Hand Delivery: Mail or visit DOL–MSHA, Office of Standards, Regulations, and Variances, 201 12th Street South, Suite 4E401, Arlington, VA 22202–4542.
• MSHA will post your comment as well as any attachments, except for information submitted and marked as confidential, in the docket at https://www.regulations.gov.

FOR FURTHER INFORMATION CONTACT: S. Aromie Noe, Acting Deputy Director, Office of Standards, Regulations, and Variances, MSHA, at MSHA.information.collections@dol.gov
I. Background

Section 103(h) of the Federal Mine Safety and Health Act of 1977 (Mine Act), 30 U.S.C. 813(h), authorizes MSHA to collect information necessary to carry out its duty in protecting the safety and health of miners. Further, section 101(a) of the Mine Act, 30 U.S.C. 811, authorizes the Secretary of Labor to develop, promulgate, and revise as may be appropriate, improved mandatory health or safety standards for the protection of life and prevention of injuries in coal or other mines.

Noise is a harmful physical agent and one of the most pervasive health hazards in mining. Repeated exposure to high levels of sound over time causes occupational noise-induced hearing loss (NIHL), a serious physical impairment with far-reaching psychological and social effects. NIHL can be distinguished from aging and other factors that can contribute to hearing loss and it can be prevented. According to the National Institute for Occupational Safety and Health, NIHL is among the “top ten” leading occupational illnesses and injuries.

At mines, various machines that generate loud sounds are used, such as drills, crushers, compressors, conveyors, trucks, loaders, and other heavy-duty equipment for the excavation, haulage, and processing of materials. The operators of these machines and miners working nearby are exposed to the high sound levels. For many years, NIHL was regarded as an inevitable consequence of working in a mine, but that is no longer the case. MSHA, the Occupational Safety and Health Administration, the U.S. military, and other organizations around the world have established and enforced standards to reduce the loss of hearing. Quieter equipment, isolation of workers from noise sources, and limiting the time workers are exposed to noise are among the many well-accepted methods that will prevent costly incidences of NIHL.

Records of miner exposures to noise are necessary so that mine operators and MSHA can evaluate the need for and effectiveness of engineering controls, administrative controls, and personal protective equipment to protect miners from harmful levels of noise that can result in hearing loss. However, MSHA believes that extensive records for this purpose are not needed. These requirements are a performance-oriented approach to monitoring. Records of miner hearing examinations enable mine operators and MSHA to ensure that the controls are effective in preventing NIHL for individual miners. Records of training are needed to confirm that miners receive the information they need to become active participants in hearing conservation efforts.

II. Desired Focus of Comments

MSHA is soliciting comments concerning the proposed information collection related to Occupational Noise Exposure. MSHA is particularly interested in comments that:

• Evaluate whether the collection of information is necessary for the proper performance of the functions of the Agency, including whether the information has practical utility;
• Evaluate the accuracy of MSHA’s estimate of the burden of the collection of information, including the validity of the methodology and assumptions used;
• Suggest methods to enhance the quality, utility, and clarity of the information to be collected; and
• Minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses.

Background documents related to this information collection request are available at https://regulations.gov and in DOL–MSHA located at 201 12th Street South, Suite 4E401, Arlington, VA 22202–5452. Questions about the information collection requirements may be directed to the person listed in the FOR FURTHER INFORMATION CONTACT section of this notice.

III. Current Actions

This information collection request concerns provisions for Occupational Noise Exposure. MSHA has updated the data with respect to the number of respondents, responses, burden hours, and burden costs supporting this information collection request from the previous information collection request.

Type of Review: Extension, without change, of a currently approved collection.
Agency: Mine Safety and Health Administration.
OMB Number: 1219–0120.
Affected Public: Business or other for-profit.
Number of Respondents: 12,929.
Frequency: On occasion.
Number of Responses: 190,001.
Annual Burden Hours: 14,153 hours.
Annual Respondent or Recordkeeper Cost: $30,585.

Comments submitted in response to this notice will be summarized in the request for Office of Management and Budget approval of the proposed information collection request; they will become a matter of public record and will be available at https://www.reginfo.gov.

Song-ae Aromie Noe, Certifying Officer.

[FR Doc. 2021–09797 Filed 5–7–21; 8:45 am]

DEPARTMENT OF LABOR

Occupational Safety and Health Administration

[Docket No. OSHA–2007–0041]

FM Approvals LLC: Grant of Expansion of Recognition and Modification to the NRTL Program’s List of Appropriate Test Standards

AGENCY: Occupational Safety and Health Administration (OSHA), Labor.

ACTION: Notice.

SUMMARY: In this notice, OSHA announces the final decision to expand the scope of recognition for FM Approvals LLC for expansion of recognition as a Nationally Recognized Testing Laboratory (NRTL). Additionally, OSHA announces the final decision to modify the NRTL Program’s List of Appropriate Test Standards to include one additional test standard.

DATES: The expansion of the scope of recognition become effective on May 10, 2021.

FOR FURTHER INFORMATION CONTACT: Information regarding this notice is available from the following sources:
Press inquiries: Contact Mr. Frank Meilinger, Director, OSHA Office of Communications, U.S. Department of Labor, telephone: (202) 693–1999; email: meilinger.francis2@dol.gov.
General and technical information: Contact Mr. Kevin Robinson, Director, Office of Technical Programs and Coordination Activities, Directorate of Technical Support and Emergency Management, Occupational Safety and Health Administration, U.S. Department of Labor, phone: (202) 693–2110 or email: robinson.kevin@dol.gov.

SUPPLEMENTARY INFORMATION:

I. Notice of Final Decision

OSHA hereby gives notice of the expansion of the scope of recognition of FM Approvals LLC (FM) as a NRTL. This expansion covers the addition of five test standards to FM’s NRTL scope.
of recognition, one of which will be added to the NRTL Program’s List of Appropriate Test Standards.

OSHA recognition of a NRTL signifies that the organization meets the requirements specified by 29 CFR 1910.7. Recognition is an acknowledgment that the organization can perform independent safety testing and certification of the specific products covered within its scope of recognition and is not a delegation or grant of government authority. As a result of recognition, employers may use products properly approved by the NRTL to meet OSHA standards that require testing and certification of the products.

The agency processes applications by a NRTL for initial recognition and for an expansion or renewal of this recognition, following requirements in Appendix A to 29 CFR 1910.7. This appendix requires that the agency publish two notices in the Federal Register in processing an application. In the first notice, OSHA announces the application and provides a preliminary finding. In the second notice, the agency provides the final decision on the application. These notices set forth the NRTL’s scope of recognition or modifications of that scope. OSHA maintains an informational web page for each NRTL, including FM, which details the NRTL’s scope of recognition. These pages are available from the OSHA website at http://www.osha.gov/dts/otpca/nrtl/index.html.

FM submitted an application to OSHA to expand recognition as a NRTL to include five additional test standards on May 16, 2019 (OSHA–2007–0041–0014). OSHA staff performed a detailed analysis of the application packet and reviewed other pertinent information. OSHA did not perform any on-site reviews in relation to this application. OSHA published the preliminary notice announcing FM’s expansion application in the Federal Register on February 26, 2021 (86 FR 11794). The agency requested comments by March 15, 2021, but it received no comments in response to this notice. OSHA is now proceeding with this final notice to grant expansion of FM’s scope of recognition.

To obtain or review copies of all public documents pertaining to FM’s application, go to www.regulations.gov or contact the Docket Office.

### TABLE 1—LIST OF APPROPRIATE TEST STANDARDS FOR INCLUSION IN FM’S NRTL SCOPE OF RECOGNITION

<table>
<thead>
<tr>
<th>Test standard</th>
<th>Test standard title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI FM 3265</td>
<td>Spark Detection and Extinguishing Systems.</td>
</tr>
<tr>
<td>UL 268</td>
<td>Smoke Detectors for Fire Alarm Systems.</td>
</tr>
<tr>
<td>UL 1971</td>
<td>Signaling Devices for the Hearing Impaired.</td>
</tr>
<tr>
<td>UL 2127</td>
<td>Inert Gas Clean Agent Extinguishing System Units.</td>
</tr>
<tr>
<td>UL 2166</td>
<td>Halocarbon Clean Agent Extinguishing System Units.</td>
</tr>
</tbody>
</table>

*Represents the standard that OSHA is adding to the NRTL Program’s List of Appropriate Test Standards.

In this notice, OSHA also announces the addition of a new test standard to the NRTL Program’s List of Appropriate Test Standards. Table 2 below lists the standard that is new to the NRTL Program. OSHA has determined that this test standard is an appropriate test standard and will add it to the NRTL.

### TABLE 2—STANDARD OSHA IS PROPOSING TO ADD TO THE NRTL PROGRAM’S LIST OF APPROPRIATE TEST STANDARDS

<table>
<thead>
<tr>
<th>Test standard</th>
<th>Test standard title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI FM 3265</td>
<td>Spark Detection and Extinguishing Systems.</td>
</tr>
</tbody>
</table>

OSHA’s recognition of any NRTL for a particular test standard is limited to equipment or materials for which OSHA standards require third-party testing and certification before using them in the workplace. Consequently, if a test standard also covers any products for which OSHA does not require such testing and certification, a NRTL’s scope of recognition does not include these products.

The American National Standards Institute (ANSI) may approve the test standard listed above as an American National Standard. However, for convenience, we may use the designation of the standards-developing organization for the standard as opposed to the ANSI designation. Under the NRTL Program’s policy (see OSHA Instruction CPL 1–0.3, Appendix C, paragraph XIV), any NRTL recognized for a particular test standard may use either the proprietary version of the test standard or the ANSI version of that standard. Contact ANSI to determine whether a test standard is currently ANSI-approved.

### A. Conditions

In addition to those conditions already required by 29 CFR 1910.7, FM must abide by the following conditions of the recognition:

1. FM must inform OSHA as soon as possible, in writing, of any change of ownership, facilities, or key personnel, and of any major change in its...
National Archives and Records Administration (NARA–2021–028)

Agency Information Collection Activities: Proposed Collection; Comment Request

AGENCY: National Archives and Records Administration (NARA).

ACTION: Notice of proposed extension request.

SUMMARY: We are proposing to request an extension from the Office of Management and Budget (OMB) of a currently approved information collection used by registrants or other authorized individuals to request information from or copies of Selective Service System (SSS) records. We invite you to comment on this proposed information collection pursuant to the Paperwork Reduction Act of 1995.

DATES: We must receive written comments on or before July 9, 2021.

ADDRESSES: Send comments by email to tamee.fechhelm@nara.gov. Because our buildings are temporarily closed during the COVID-19 restrictions, we are not able to receive comments by mail during this time.

FOR FURTHER INFORMATION CONTACT: Tamee Fechhelm, Paperwork Reduction Act Officer, by email at tamee.fechhelm@nara.gov or by telephone at 301.837.1694 with requests for additional information or copies of the proposed information collection and supporting statement.

SUPPLEMENTAL INFORMATION: Pursuant to the Paperwork Reduction Act of 1995 (Pub. L. 104–13), we invite the public and other Federal agencies to comment on proposed information collections. If you have comments or suggestions, they should address one or more of the following points: (a) Whether the proposed information collection is necessary for NARA to properly perform its functions; (b) our estimate of the burden of the proposed information collection and its accuracy; (c) ways we could enhance the quality, utility, and clarity of the information we collect; (d) ways we could minimize the burden on respondents of collecting the information, including through information technology; and (e) whether this collection affects small businesses.

We will summarize any comments you submit and include the summary in our request for OMB approval. All comments will become a matter of public record.

In this notice, we solicit comments concerning the following information collection:

Title: Selective Service System Record Request

OMB number: 3095–0071.

Agency form numbers: NA Form 13172.

Type of review: Regular.

Affected public: Individuals or households.

Estimated number of respondents: 1,500.

Estimated time per response: 2 minutes.

Frequency of response: On occasion.

Estimated total annual burden hours: 50.

Abstract: The National Personnel Records Center (NPRC) of the National Archives and Records Administration (NARA) administers the Selective Service System (SSS) records. The SSS records contain both classification records and registration cards of registrants born before January 1, 1960. When registrants or other authorized individuals request information from or copies of SSS records they must provide on forms or letters certain information about the registrant and the nature of the request. Requesters use NA Form 13172, Selective Service Request Form to obtain information from SSS records stored at NARA facilities.

Swarnali Haldar,
Executive for Information Services/CIO.
[FR Doc. 2021–09765 Filed 5–7–21; 8:45 am]

BILLING CODE 7515–01–P

NATIONAL SCIENCE FOUNDATION

Proposal Review; Notice of Meetings

In accordance with the Federal Advisory Committee Act (Pub., L. 92–463, as amended), the National Science Foundation (NSF) announces its intent to hold proposal review meetings throughout the year. The purpose of these meetings is to provide advice and recommendations concerning proposals submitted to the NSF for financial support. The agenda for each of these meetings is to review and evaluate proposals as part of the selection process for awards. The review and evaluation may also include assessment of the progress of awarded proposals. The majority of these meetings will take place at NSF, 2415 Eisenhower Avenue, Alexandria, VA 22314.

These meetings will be closed to the public. The proposals being reviewed include information of a proprietary or confidential nature, including technical information; financial data, such as salaries; and personal information concerning individuals associated with the proposals. These matters are exempt under 5 U.S.C. 552(b)(4) and (6) of the Government in the Sunshine Act. NSF will continue to review the agenda and merits of each meeting for overall compliance of the Federal Advisory Committee Act.

These closed proposal review meetings will not be announced on an individual basis in the Federal Register. NSF intends to publish a notice similar to this on a quarterly basis. For an advance listing of the closed proposal review meetings that include the names of the proposal review panel and the time, date, place, and any information on changes, corrections, or cancellations, please visit the NSF website: https://www.nsf.gov/events/. This information may also be requested by telephoning, 703/292–8687.


Crystal Robinson,
Committee Management Officer.
[FR Doc. 2021–09850 Filed 5–7–21; 8:45 am]

BILLING CODE 7555–01–P
NUCLEAR REGULATORY COMMISSION

[NRC–2020–0185]

Information Collection: Voluntary Reporting of Performance Indicators

AGENCY: Nuclear Regulatory Commission.

ACTION: Notice of submission to the Office of Management and Budget; request for comment.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) has recently submitted a request for renewal of an existing collection of information to the Office of Management and Budget (OMB) for review. The information collection is entitled, “Voluntary Reporting of Performance Indicators.”

DATES: Submit comments by June 9, 2021. Comments received after this date will be considered only for comments received on or before this date.

ADDRESSES: Written comments and recommendations for the proposed information collection should be sent within 30 days of publication of this notice to https://www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under Review—Open for Public Comments” or by using the search function.


SUPPLEMENTARY INFORMATION:

I. Obtaining Information and Submitting Comments

A. Obtaining Information

Please refer to Docket ID NRC–2020–0185 when contacting the NRC about the availability of information for this action. You may obtain publicly available information related to this action by any of the following methods:

• Federal Rulemaking website: Go to https://www.regulations.gov/ and search for Docket ID NRC–2020–0185. A copy of the collection of information and related instructions may be obtained without charge by accessing Docket ID NRC–2020–0185 on this website.

• NRC’s Agencywide Documents Access and Management System (ADAMS): You may obtain publicly available documents online in the ADAMS Public Documents collection at https://www.nrc.gov/reading-rm/adams.html. To begin the search, select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1–800–397–4209, 301–415–4737, or by email to pdr.resource@nrc.gov. A copy of the collection of information and related instructions may be obtained without charge by accessing ADAMS Accession No. ML19025A257. The supporting statement is available in ADAMS under Accession No. ML21060B481.

• Attention: The PDR, where you may examine and order copies of public documents, is currently closed. You may submit your request to the PDR via email at pdr.resource@nrc.gov or call 1–800–397–4209 or 301–415–4737, between 8:00 a.m. and 4:00 p.m. (EST), Monday through Friday, except Federal holidays.

• NRC’s Clearance Officer: A copy of the collection of information and related instructions may be obtained without charge by contacting the NRC’s Clearance Officer, David Cullison, Office of the Chief Information Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001; telephone: 301–415–2084; email: Infocollects.Resource@nrc.gov.

B. Submitting Comments

The NRC encourages electronic comment submission through the Federal Rulemaking website (https://www.regulations.gov/). Please include Docket ID NRC–2020–0185 in your comment submission.

The NRC cautions you not to include identifying or contact information that you do not want to be publicly disclosed in your comment submission. The NRC will post all comment submissions at https://www.regulations.gov as well as enter the comment submissions into ADAMS. The NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the OMB, then you should inform those persons not to include identifying or contact information that they do not want to be publicly disclosed in their comment submission. Your request should state that comment submissions are not routinely edited to remove such information before making the comment submissions available to the public or entering the comment into ADAMS.

II. Background

Under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. Chapter 35), the NRC recently submitted a request for renewal of an existing collection of information to OMB for review entitled, “Voluntary Reporting of Performance Indicators.” The NRC hereby informs potential respondents that an agency may not conduct or sponsor, and that a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

The NRC published a Federal Register notice with a 60-day comment period on this information collection on January 8, 2021, (86 FR 1544).

1. The title of the information collection: “Voluntary Reporting of Performance Indicators.”

2. OMB approval number: 3150–0195.

3. Type of submission: Revision.

4. The form number, if applicable: Not applicable.

5. How often the collection is required or requested: Quarterly for Performance Indicator reporting and on occasion for the Frequently Asked Question process.

6. Who will be required or asked to respond: Power reactor licensees.

7. The estimated number of annual responses: 380 (359 reporting responses + 21 recordkeepers).

8. The estimated number of annual respondents: 89.

9. The estimated number of hours needed annually to comply with the information collection requirement or request: The total reporting and recordkeeping burden is 77,734 (76,660 hours reporting + 1,074 hours recordkeeping).

10. Abstract: As part of a joint industry-NRC initiative, the NRC receives information submitted voluntarily by power reactor licensees regarding selected performance attributes known as performance indicators (PIs). Performance indicators are objective measures of the performance of licensee systems or programs. The NRC uses PI information and inspection results in its Reactor Oversight Process (ROP) to make decisions about plant performance and regulatory response. Licensees transmit PIs electronically to reduce burden on themselves and the NRC. Licensees also participate in the ROP Performance Indicator Frequently Asked Question (FAQ) process that it is used to resolve interpretation issues with NEI 99–02. The FAQ process and white papers may also be used to propose changes to NEI 99–02 guidance and the PI Program. The NRC and industry review FAQs and white papers and work to achieve resolution during periodic public meetings.

For the Nuclear Regulatory Commission.

David C. Cullison, 
NRC Clearance Officer, Office of the Chief Information Officer.

[FR Doc. 2021-09825 Filed 5–7–21; 8:45 am]

BILLING CODE 7590-01-P

POSTAL SERVICE

Privacy Act: System of Records

AGENCY: Postal ServiceTM.

ACTION: Notice of a new system of records.

SUMMARY: The United States Postal Service (USPS™) is proposing to create a new General Privacy Act System of Records.

DATES: These revisions will become effective without further notice on June 9, 2021 unless comments received on or before that date result in a contrary determination.

ADDRESSES: Comments may be submitted via email to the Privacy and Records Management Office, United States Postal Service Headquarters (privacy@usps.gov). Arrangements to view copies of any written comments received, to facilitate public inspection, will be made upon request.

FOR FURTHER INFORMATION CONTACT: Janine Castorina, Chief Privacy and Records Management Officer, Privacy and Records Management Office, 202–268–3069 or privacy@usps.gov.

SUPPLEMENTARY INFORMATION:

Background

The world of commercial information technology resources (“IT”) is constantly changing and innovating to improve the daily lives of businesses, their employees, and their customers. This pace can often result in unanticipated obsolescence, necessitating review of an organization’s already implemented solutions. For the Postal Service, legal processes and notice required by the Privacy Act present additional challenges, as new technologies will require further review for possible compliance issues to meet statutory and regulatory requirements.

To better meet the changing technology world, the Postal Service will consolidate existing Systems of Records (“SOR’s”) covering IT into three new, comprehensive Systems of Records. These SORs will work in tandem, with each individual SOR covering a specific group of related functions, while all three SORs working together to support a seamless technology experience.

These SORs, generally, will cover the following three areas:

- Infrastructure, covering records created for use throughout the entirety of a particular IT resource in addition to covering the records created from the usage of those records by users and applications.
- Applications, covering records created through the regular use of an application.
- Administrative, covering records created for monitoring and administration of users and applications within an IT resource.

In addition to covering these three areas generally, the Postal Service will look ahead in an effort to include possible future technology solutions within this System of Records. This will give the Postal Service flexibility to more easily adapt to the advancing pace of information technology and to better fulfill its service obligations. This will also provide transparency into the collection of records relating to commercial IT, allowing Postal employees, contractors, and the public to more easily identify what we do with their information.

Rationale for the Creation of a New USPS System of Records

Currently, records relating to the implementation of IT resources are housed primarily in USPS 500.000, Property Management Records, with other IT-related components appearing in 890.000, Sales, Marketing, Events, and Publications, and other SORs. SOR 500.000 reflects not only IT access records, but also building access and related records. This results in a mixture of uses within SOR 500.000, which reduces optimization and can result in confusion.

The creation of a new SOR to encompass commercial IT resources, therefore, provides a platform which is easy to understand and allows for greater flexibility in use and maintenance. Since the new SOR will house only IT resources, the public can more easily understand what information is collected and how it is used.

Further, documenting IT records within one SOR provides for greater flexibility in adding new resources as well as maintaining existing resources. For example, one application may already collect and store, for the same purpose, data elements that a new application will use. With a record already documented, the implementation process of the new technology will be streamlined while also meeting statutory and regulatory mandates.

Description of New or Modified System of Records

This new System of Records is being developed to support the implementation of various commercial IT resources and to provide support for future implementations.

This system specifically will cover categories of records referred to collectively as “Administrative.” Categories of Records in this system reference data elements created from a user or application’s interactions with other applications. Applications covered in this SOR reference or incorporate data elements otherwise documented in USPS 550.000 Commercial Information Technology Resources- Infrastructure; therefore, they will not be specifically documented here unless this system references a transformative use of that element.

This System of Records may overlap with elements appearing in other Systems of Records, as indicated in the Rationale for Changes to USPS System of Records section. This new System of Records will encompass commercially developed or commercially assisted IT resources. Applications developed in-house or by the Postal Service, such as Informed Delivery®, will still be represented in their own SOR.


SECURITY CLASSIFICATION: None.

SYSTEM LOCATION: All USPS facilities and contractor sites.

SYSTEM MANAGER(S) AND ADDRESS: Chief Information Officer and Executive Vice President, United States Postal Service, 475 L’Enfant Plaza SW, Washington, DC 20260.


PURPOSE(S) OF THE SYSTEM:

1. To provide active and passive monitoring and review of information system applications and user activities.
2. To generate logs and reports of information system application and user activities.
3. To provide a means of auditing commercial information system activities across applications and users.

CATEGORIES OF INDIVIDUALS COVERED BY THE SYSTEM:

1. Individuals with authorized access to USPS computers, information
resources, and facilities, including employees, contractors, business partners, suppliers, and third parties.

2. Individuals participating in web-based meetings, web-based video conferencing, web-based communication applications, and web-based collaboration applications.

CATEGORIES OF RECORDS IN THE SYSTEM:

1. General Audit Log activities:
   a. Date/Time, IP Address, User Activity, User Item Accessed, Activity Detail, Object ID, Record Type, Client IP Address, CorrelationID, CreationTime, EventData, EventSource, ItemType, OrganizationID, UserAgent, UserKey, UserType, Version, Workload.

2. File and page activities:
   a. Access file, Change retention label for a file, Deleted file marked as a record, Checked in file, Changed record status to locked, Changed record status to unlocked, Checked out file, Copied file, Discarded file checkout, Deleted file, Deleted file from recycle bin, Deleted file from second-stage recycle bin, Detected document sensitivity mismatch, Detected malware in file, Deleted file marked as a record, Downloaded file, Modified file, Moved file, Recycled all minor versions of file, Recycled all versions of file, Recycled version of file, Renamed file, Restored file, Uploaded file, Viewed page, View signaled by client, Performed search query.

3. Folder activities:
   a. Copied folder, Created folder, Deleted folder, Deleted folder from recycle bin, Deleted folder from second-stage recycle bin, Modified folder, Moved folder, Renamed folder, Restored folder.

4. Cloud-based Enterprise Storage activities:
   a. Created list, Created list column, Created list content type, Created list item, Created site column, Created site content type, Deleted list, Deleted list column, Deleted list content type, Deleted list item, Updated list, Updated list column, Updated list content type, Updated list item, Updated site column, Updated site content type.

5. Sharing and access request activities:
   a. Added permission level to site collection, Accepted access request, Accepted sharing invitation, Blocked sharing invitation, Created access request, Created a company shareable link, Created an anonymous link, Created secure link, Deleted secure link, Changed sharing invitation, Denied access request, Removed a company shareable link, Removed an anonymous link, Shared file, folder, or site, Updated access request, Updated an anonymous link, Updated sharing invitation, Used a company shareable link, Used an anonymous link, Used secure link, User added to secure link, User removed from secure link, Withdrawed sharing invitation.

6. Synchronization activities:
   a. Allowed computer to sync files, Blocked computer from syncing files, Downloaded files to computer, Uploaded file changes to computer, Uploaded files to document library, Uploaded file changes to document library.

7. Site permissions activities:
   a. Added site collection admin, Added user of group to Cloud-based Enterprise Storage group, Broke permission level inheritance, Broke sharing inheritance, Created group, Deleted group, Modified access request setting, Modified “Members Can Share” setting, Modified permission level on site collection, Modified site permissions, Removed site collection admin, Removed permission level from site collection, Removed user or group from Cloud-based Enterprise Storage group, Requested site admin permissions, Restored sharing inheritance, Updated group.

8. Site administration activities:
   a. Added allowed data location, Added exempt user agent, Added geo location admin, Allowed user to create groups, Cancelled site geo move, Changed a sharing policy, Changed deice access policy, Changed exempt user agents, Changed network access policy, Completed site geo move, Created Sent To connection, Created site collection, Deleted orphaned hub site, Deleted Sent To connection, Deleted site, Enabled document preview, Enabled legacy workflow, Enabled service applications on Demand, Enabled result source for People Search, Enabled RSS feeds, Failed site swap, Joined site to hub site, Registered hub site, Removed allowed data location, Removed geo location admin, Renamed site, Scheduled site rename, Scheduled site swap, Scheduled site geo move, Set host site, Set storage quota for geo location, Swapped site, Unjoined site from hub site, Unregistered hub site.

9. Cloud-based Email Server mailbox activities:
   a. Created mailbox item, Copied messages to another folder, User signed in to mailbox, Accessed mailbox items, Sent message using Send On Behalf permissions, Purged messages from mailbox, Moved messages to Deleted Items folder, Moved messages to another folder, Sent message using Send As, Removed message, Deleted message from Deleted Items folder, New-Inbox Rule Create-Inbox Rule from email web application, Set-Inbox Rule Modify inbox rule from email web application, Added delegate mailbox permissions, Removed delegate mailbox permissions, Added permissions to folder, Modified permissions of folder, Removed permissions from folder, Added or removed user with delegate access to calendar folder, Labeled message as a record, Updated retention level, Deleted retention policy, Deleted settings from a retention policy, Updated retention label, Updated retention policy, Updated settings for a retention policy, Enabled regulatory record option for retention labels.

10. User administration activities:
    a. Added user, Deleted user, Set license properties, Reset user password, Changed user password, Changed user access, Updated user, Set property that forces user to change password.

11. Enterprise User Administration group administration activities:
    a. Added group, Updated group, Deleted group, Added member to group, Removed member from group.

12. Application Administration Activities:
    a. Added service principal, Removed a service principal from the directory, Set delegation entry, Removed credentials from a service principal, Added delegation entry, Added credentials to a service principal, Removed delegation entry.

13. Role administration activities:
    a. Added member to Role, Removed a user from a directory role, Set company contact information.

14. Directory administration activities:
    a. Added a partner to the directory, Removed a partner from the directory, Added domain to company, Removed domain from company, Updated domain, Set domain authentication, Verified domain, Updated the federation settings for a domain, Verified email verified domain, Turned on Enterprise Information Technology Account Administration sync, Set password policy, Set company information.

15. eDiscovery activities:
    a. Created content search, Deleted content search, Changed content search, Started content search, Stopped content search, Started export of content search, Started export report, Previewed results of content search, Purged results of content search, Started analysis of content search, Updated the federation settings for a search, Removed preview results of content search, Removed purge action.
POLICIES AND PRACTICES FOR RETENTION AND DISPOSAL OF RECORDS:

Records relating to system administration are retained for twenty-four months.

ADMINISTRATIVE, TECHNICAL, AND PHYSICAL SAFEGUARDS:

Paper records, computers, and computer storage media are located in controlled-access areas under supervision of program personnel. Computer access is limited to authorized personnel with a current security clearance, and physical access is limited to authorized personnel who must be identified with a badge.

Access to records is limited to individuals whose official duties require such access. Contractors and licensees are subject to contract controls and unannounced on-site audits and inspections.

Computers are protected by encryption, mechanical locks, card key systems, or other physical access control methods. The use of computer systems is regulated with installed security software, computer logon identifications, and operating system controls including access controls, terminal and transaction logging, and file management software.

RECORD ACCESS PROCEDURES:

Requests for access must be made in accordance with the Notification Procedure above and USPS Privacy Act regulations regarding access to records and verification of identity under 39 CFR 266.5.

CONTESTING RECORD PROCEDURES:

See Notification Procedure and Record Access Procedures above.

NOTIFICATION PROCEDURE:

Customers wanting to know if other information about them is maintained in this system of records must address inquiries in writing to the Chief Information Officer and Executive Vice President and include their name and address.

EXEMPTION(S) PROMULGATED FROM THIS SYSTEM:

None.

HISTORY:

None.

Joshua J. Hofer,
Attorney, Ethics & Legal Compliance.
[FR Doc. 2021–09752 Filed 5–7–21; 8:45 am]

BILLING CODE P
• Applications, covering records created through the regular use of an application.

• Administrative, covering records created for monitoring and administration of users and applications within an IT resource.

In addition to covering these three areas generally, the Postal Service will look ahead in an effort to include possible future technology solutions within this System of Records. This will give the Postal Service flexibility to more easily adapt to the developing pace of information technology and to better fulfill its service obligations. This will also provide transparency into the collection of records relating to commercial IT, allowing Postal employees, contractors, and the public to more easily identify what we do with their information.

Rationale for the Creation of a New USPS System of Records

Currently, records relating to the implementation of IT resources are housed primarily in USPS 500.000, Property Management Records, with other IT-related components appearing in USPS 890.000, Sales, Marketing, Events, and Publications and other SORs. SOR 500.000 reflects not only IT access records, but also building access and related records. This results in a mixture of uses within SOR 500.000, which reduces optimization and can result in confusion.

The creation of a new SOR to encompass commercial IT resources, therefore, provides a platform which is easy to understand and allows for greater flexibility in use and maintenance. Since the new SOR will house only IT resources, the public can more easily understand what information is collected and how it is used.

Further, documenting IT records within one SOR provides for greater flexibility in adding new resources as well as maintaining existing resources. For example, one application may already collect and store, for the same purpose, data elements that a new application will use. With a record already documented, the implementation process of the new technology will be streamlined while also meeting statutory and regulatory mandates.

Description of New or Modified System of Records

This new system of records is being developed to support the implementation of various commercial IT resources and to provide support for future implementations.

This system specifically will cover categories of records referred to collectively as “Infrastructure.” Categories of Records in this system reference data elements created in one application and passed through to multiple applications. This SOR also contains Categories of Records that reference transformations or analysis of those data elements resulting from interactions with users or applications. Data elements documented within this system may be passed through or referenced by records otherwise contained in systems USPS 550.100 Commercial Information Technology Resources- Applications and USPS 550.200 Commercial Information Technology Resources—Administrative; therefore, those elements will not be specifically documented within those systems unless those systems utilize those elements in a transformative manner.

This System of Records may overlap with elements appearing in other Systems of Records, as indicated in the Rationale for Changes to USPS System Records section. This new System of Records will encompass commercially developed or commercially assisted IT resources. Applications developed in-house or by the Postal Service, such as Informed Delivery®, will still be represented in their own SOR.

SYSTEM NAME AND NUMBER:

550.000 Commercial Information Technology Resources—Infrastructure

SECURITY CLASSIFICATION:
None.

SYSTEM LOCATION:

All USPS facilities and contractor sites.

SYSTEM MANAGER(S):

Chief Information Officer and Executive Vice President, United States Postal Service, 475 L’Enfant Plaza SW, Washington, DC 20260.

AUTHORITY FOR MAINTENANCE OF THE SYSTEM:


PURPOSE(S) OF THE SYSTEM:

1. To provide USPS employees, contractors, and other authorized individuals with hierarchical access to and accounts for commercial information technology resources administered by the Postal Service and based on least privileged access.
2. To facilitate a cohesive software experience and simplify ease of use by sharing user and application data across participating IT programs.
3. To authenticate user identity for the purpose of accessing USPS information systems.
4. To assess user attributes and assign related access privileges.
5. To authenticate suppliers and contractors and facilitate further access to downstream Postal Service information systems.
6. To provide active and passive monitoring of information systems, applications, software, devices, and users for information security risks.
7. To review information systems, applications, software, devices, and users to ensure compliance with USPS regulations.
8. To facilitate and support cybersecurity investigations of detected or reported information security incidents.
9. To administer programs, processes, and procedures to assess information security risks and to detect information security threats and vulnerabilities.
10. To provide tools and analytics for USPS employees and contractors to measure work productivity and improve efficiency.
11. To improve manager-subordinate relationships within their formal reporting structure through data-based insights generated from their own email and related electronic communications with subordinates.

CATEGORIES OF INDIVIDUALS COVERED BY THE SYSTEM:

1. Individuals with authorized access to USPS computers, information resources, and facilities, including employees, contractors, business partners, suppliers, and third parties.
2. Individuals participating in web-based meetings, web-based video conferencing, web-based communication applications, and web-based collaboration applications.

CATEGORIES OF RECORDS IN THE SYSTEM:

1. Information System Account Access records: Records relating to the access or use of an information system, application, or piece of software, including; Name, User ID, Email Address, User Type, User Role, Job Title, Department, Manager, Company, Street Address, State Or Province, Country Or Region, Work Phone Number(s), Employee Identification Number (EIN), Advanced Computing Environment (ACE) ID, License Information, Action Initiated, Datetime, User Principal Name, Usage Location, Alternate Email Address, Proxy Address, Age Group, IP Address, MAC Address, Password, Multi-Factor Authentication Credentials, Security Questions, Security Answers, Passcode, Geolocation Data, User Profile Picture, Picture Metadata, Information Technology Account Administration

3. Productivity Analytics records: Records relating to the gathering, analysis, review, and investigation of information system utilization, including: Calendar Appointments, Email Read Rate, Email Response Rate, Operating System Activity History, Email Timestamp, Statements Made In Email Body, Email Sender, Email Recipient, Email Subject Line, Calendar Event Type, Calendar Event Status, Calendar Event Category, Calendar Event Subject, Calendar Event Duration, Calendar Event Attendee, Meeting Organizer, Meeting Invites, Meeting Subject Line, Meeting Scheduled Time, Meeting Attendee Status, Meeting Scheduled Location, Web Call Organizer, Web Call Invites, Web Call Scheduled Time, Web Call Joined Time, Web Call Duration, Web Call Status, Web Call Join Status, Number Of Collaborative Audio Calls Made, Number Of Collaborative Video Calls Made, Chat Initiator, Chat Recipient, Chat IM Sent Time, Number Of Cloud-Based Personal Storage Documents Worked On, Number Of Cloud-Based Enterprise Storage Documents Worked On, Device Name.

RECORD SOURCE CATEGORIES:
Employees; contractors; suppliers; customers.

ROUTINE USES OF RECORDS MAINTAINED IN THE SYSTEM, INCLUDING CATEGORIES OF USERS AND PURPOSES OF SUCH USES:

Standard routine uses 1. through 9. apply. In addition:
(a) Disclosure of records to appropriate agencies, entities, and persons when (1) the Postal Service suspects or has confirmed that there has been a breach of the system of records; (2) the Postal Service has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the Postal Service (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the Postal Service’s efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.

POLICIES AND PRACTICES FOR STORAGE OF RECORDS:
Automated database, computer storage media, and paper.

POLICIES AND PRACTICES FOR RETRIEVAL OF RECORDS:
1. Records relating to information system access are retrievable by name, email address, username, geolocation data, and ACE ID.
2. Records relating to security analysis are retrievable by name, unique user ID, email address, geolocation data, IP address and computer name.
3. Records relating to productivity are retrievable by name, email address, and ACE ID.
4. Records relating to third-parties are retrievable by name, email address, user name, and IP address.

POLICIES AND PRACTICES FOR RETENTION AND DISPOSAL OF RECORDS:
1. Records relating to information system access are retained twenty-four months after last access.
2. Records relating to security analysis are retained for twenty-four months.
3. Records relating to productivity are retained for twenty-four months.
4. Records relating to third-parties are retained for twenty-four months.

ADMINISTRATIVE, TECHNICAL, AND PHYSICAL SAFEGUARDS:
Paper records, computers, and computer storage media are located in controlled-access areas under supervision of program personnel. Computer access is limited to authorized personnel with a current security clearance, and physical access is limited to authorized personnel who must be identified with a badge.

Access to records is limited to individuals whose official duties require such access. Contractors and licensees are subject to contract controls and unannounced on-site audits and inspections.

Computers are protected by encryption, mechanical locks, card key systems, or other physical access control methods. The use of computer systems is regulated with installed security software, computer logon identifications, and operating system controls including access controls, terminal and transaction logging, and file management software.

RECORD ACCESS PROCEDURES:
Requests for access must be made in accordance with the Notification Procedure above and USPS Privacy Act regulations regarding access to records and verification of identity under 39 CFR 266.5.

CONTESTING RECORD PROCEDURES:
See Notification Procedure and Record Access Procedures above.

NOTIFICATION PROCEDURES:
Customers wanting to know if other information about them is maintained in this system of records must address inquiries in writing to the Chief Information Officer and Executive Vice President and include their name and address.

EXEMPTION PROMULGATED FROM THIS SYSTEM:
None.

HISTORY:
None.

Joshua J. Hofer,
Attorney, Ethics & Legal Compliance.

[FR Doc. 2021–09755 Filed 5–7–21; 8:45 am]
BILLING CODE 7710–12–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; New York Stock Exchange LLC; Order Granting Approval of a Proposed Rule Change of New Rules Providing for the Registration and Obligations of Non-DMM Market Makers

May 4, 2021.

I. Introduction

On March 12, 2021, New York Stock Exchange, Inc. (“NYSE” or “Exchange”)
filed with the Securities and Exchange Commission ("Commission") pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Act")\(^1\) and Rule 19b-4 thereunder,\(^2\) proposed new rules providing for the registration and obligations of Non-DMM Market Makers. The proposed rule change was published for comment in the Federal Register on March 25, 2021.\(^3\) The Commission has received no comments on the proposed rule change. The Commission is approving the proposed rule change.

II. Description of the Proposed Rule Change

The Exchange proposes rules governing Non-DMM Market Makers who would be electronic, off-floor market makers.\(^4\) Non-DMM Market Makers would comprise a new category of market participants on the Exchange and would have responsibilities different than those of Designated Market Makers ("DMMs") and Supplemental Liquidity Providers ("SLPs").

Non-DMM Market Makers are not intended to replace DMMs or SLPs on the Exchange and would not assume any of the responsibilities already assigned to DMMs or SLPs pursuant to Exchange Rules (for example, Non-DMM Market Makers would not perform any trading floor functions such as those assigned to DMMs). Instead, under the proposed rules, for all securities that trade on the Exchange, a member organization may register as a Non-DMM Market Maker and be subject to obligations similar to those of Market Makers on NYSE Arca, Inc. ("NYSE Arca") and NYSE American LLC ("NYSE American") to, among other things, maintain continuous, two-sided trading interest in the securities in which they are registered as a Non-DMM Market Maker ("Two-Sided Obligation") and adhere to certain pricing obligations.

The Exchange proposes the following rules, based on NYSE Arca and NYSE American rules of the same number with non-substantive changes, to govern the registration and obligations of Non-DMM Market Makers on the NYSE:

- Proposed Rule 1.1(p) (definition of Market Maker Authorized Trader);
- Proposed Rule 1.1(t) (definition of Non-DMM Market Maker);
- Proposed Rule 7.20 (Registration of Non-DMM Market Makers);
- Proposed Rule 7.21 (Obligations of Market Maker Authorized Traders);
- Proposed Rule 7.22 (Registration of Non-DMM Market Makers in a Security); and
- Proposed Rule 7.23 (Obligations of Non-DMM Market Makers).

These proposed rules would be applicable only to Non-DMM Market Makers. They would not apply to DMMs or SLPs, who would continue to be governed by existing Exchange rules applicable to those market participants.\(^5\)

Proposed Rule Changes

Rule 1.1

Rule 1.1 sets forth definitions of terms that are used throughout the Exchange rules. The Exchange proposes to add the following definitions to the rule:

- The Exchange proposes to amend current Rule 1.1(p) to set forth the definition of "Market Maker Authorized Trader" or "MMAT." A "Market Maker Authorized Trader" or "MMAT" would be defined as an Authorized Trader (as defined in Rule 1.1(a)) who performs market making activities pursuant to Rule 7P on behalf of a Non-DMM Market Maker.
- The Exchange proposes to amend current Rule 1.1(t) to set forth the definition of "Non-DMM Market Maker." A "Non-DMM Market Maker" would be defined as a member organization that acts as a Non-DMM Market Maker pursuant to Rule 7P. Accordingly, for purposes of Exchange rules, the term "Non-DMM Market Maker" does not include DMMs or SLPs.

Rule 7P, Section 2

The Exchange proposes to amend Section 2 under Rule 7P, which is currently designated as "Reserved," and rename it "Non-DMM Market Makers." The Exchange proposes that the rules set forth in this section would apply only to the proposed new group of Non-DMM Market Makers and would not be applicable to DMMs or SLPs.

Rule 7.20

The Exchange proposes to add Rule 7.20 and title it "Registration of Non-DMM Market Makers." Proposed Rule 7.20 would set forth the requirements for member organizations to apply for registration as Non-DMM Market Makers. The Exchange proposes that its Non-DMM Market Makers have the same registration requirements as Market Makers on NYSE Arca and NYSE American. The Exchange proposes to require member organizations interested in acting as Non-DMM Market Makers to submit an application to the Exchange. Proposed Rule 7.20 would also set forth the criteria the Exchange may consider in determining whether to approve or disapprove a prospective Non-DMM Market Maker's application and specify how a Non-DMM Market Maker's registration may be suspended, terminated, or withdrawn.

Rule 7.21

The Exchange proposes to add Rule 7.21 and title it "Obligations of Market Maker Authorized Traders." Proposed Rule 7.21 would provide that Market Maker Authorized Traders ("MMATs") are permitted to enter orders only for the account of the Non-DMM Market Maker for which they are registered. In addition, the proposed rule would specify the registration requirements for MMATs and the procedures for suspension and withdrawal of registration of MMATs. Specifically, the proposed rule would provide that a Non-DMM Market Maker must submit an application to the Exchange to register an associated person as a MMAT. A MMAT must meet certain requirements, and a Non-DMM Market Maker must ensure that its MMATs are qualified to perform market making activities. Proposed Rule 7.21 also provides that the Exchange may suspend or withdraw an MMAT's registration.

Rule 7.22

The Exchange proposes to add Rule 7.22 and title it "Registration of Non-DMM Market Makers in a Security." Proposed Rule 7.22 would set forth the process for Non-DMM Market Makers to become registered in a security and the factors the Exchange may consider in approving such registration. Non-DMM Market Makers may submit a request to the Exchange to be registered in a security, and the Exchange will evaluate whether to approve such registration, taking into consideration factors including the Non-DMM Market Maker's financial resources, experience in making markets, operational capability, and the character of the market for the security. Non-DMM Market Makers will generally be permitted to register in securities in which a DMM and/or SLP is also registered, subject to the Exchange's evaluation of the character of the market.

---


\(^4\) A "Non-DMM Market Maker" would be defined as a member organization that acts as a Non-DMM Market Maker pursuant to Rule 7P. See Notice, id. at 15974.

\(^5\) See, e.g., NYSE Rules 98, 103, 103B, 104, and 107B.
for a given security. Finally, the proposed rule would also describe both termination of a Non-DMM Market Maker’s registration in a security by the Exchange and voluntary termination by a Non-DMM Market Maker.

Rule 7.23

The Exchange proposes to add Rule 7.23 and title it “Obligations of Non-DMM Market Makers.” Proposed Rule 7.23 would set forth the obligation of Non-DMM Market Makers to engage in a course of dealings for their own account to assist in the maintenance, insofar as reasonably practicable, of fair and orderly markets on the Exchange. The proposed rule would delineate the specific responsibilities and duties of Non-DMM Market Makers, including the Two-Sided Obligation applicable to securities in which the Non-DMM Market Maker is registered and the requirement that the interest satisfying the Two-Sided Obligation be not more than the Designated Percentage (as defined in Proposed Rule 7.23) away from the National Best Bid or Offer (“NBBO”). Proposed Rule 7.23 also provides that Non-DMM Market Makers will be subject to certain minimum capital requirements and sets forth the circumstances under which a Non-DMM Market Maker could be subject to disciplinary action or suspension or revocation of registration by the Exchange for failure to comply with the course of dealings obligations set forth in this proposed rule.

Specifically, with respect to the Two-Sided Obligation, proposed Rule 7.23(a)(1)(A) provides that Non-DMM Market Makers would be required to maintain displayed interest identified as interest meeting the Two-Sided Obligation on a continuous basis during Core Trading Hours for those securities in which the Non-DMM Market Maker is registered. Proposed Rule 7.23(a)(1)(B) provides that interest satisfying a Non-DMM Market Maker’s Two-Sided Obligation must not be more than the Designated Percentage away from the then current NBBO, or if there is no NBBO, not more than the Designated Percentage away from the last reported sale for that security. With respect to minimum capital requirements, proposed Rule 7.23(a)(2) provides that Non-DMM Market Makers would be required to maintain adequate minimum capital in accordance with Rule 15c3–1 under the Act.

III. Discussion and Commission Findings

After careful consideration, the Commission finds that the Exchange’s proposed rule change is consistent with the requirements of the Act and the rules and regulations thereunder applicable to national securities exchanges. In particular, the Commission finds that the Exchange’s proposed rule change is consistent with Section 6(b)(5) of the Act, which requires that the rules of an exchange be designed, among other things, to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, to foster cooperation and coordination with persons engaged in facilitating transactions in securities, and to remove impediments to and perfect the mechanism of a free and open market and a national market system.

As described above, the Exchange proposes to adopt rules for the registration and obligations of Non-DMM Market Makers that are substantially comparable to NYSE Arca and NYSE American rules. The Exchange stated that the proposed rules are designed to enable market makers that are registered on the Exchange’s affiliated markets to become registered on the Exchange as Non-DMM Market Makers by meeting the same registration requirements and by agreeing to be subject to the same obligations. The Exchange represented that the proposed Non-DMM Market Makers are not intended to supplant existing DMMs or SLPs or their roles on the Exchange and Non-DMM Market Makers would not assume any of the responsibilities already assigned to DMMs or SLPs pursuant to Exchange Rules. According to the Exchange, the proposed rules are intended to provide for a new category of market maker that the Exchange believes will promote competition on the Exchange by enhancing the range and diversity of market making activity on the Exchange. Further, the Exchange stated that the proposal would promote competition by encouraging additional displayed liquidity. The Exchange also stated that the proposal would facilitate price discovery and promote market quality on the Exchange.

The Commission believes that introducing a new category of market maker—Non-DMM Market Makers—could promote competition on the Exchange. Further, the Commission believes that the introduction of Non-DMM Market Makers on the Exchange and their obligations to the market as required under NYSE Rule 7.23 could provide additional, supplemental liquidity to the market and could enhance price discovery.

Based on the foregoing, the Commission therefore finds that the proposed rule change is consistent with the Act.

IV. Conclusion

It is therefore ordered, pursuant to Section 19(b)(2) of the Act, the proposed rule change (SR–NYSE–2021–08) be, and hereby is, approved.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority. J. Matthew DeLesDernier, Assistant Secretary.

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Cboe C2 Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”), and Rule 19b–4 thereunder, notice is hereby given that on April 21, 2021, Cboe C2 Exchange, Inc. (“Exchange” or “C2”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Chase C2 Exchange, Inc. (the “Exchange” or “C2”) proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).5 The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/options/regulation/rule_filings/ctwo/), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the Securities and Exchange Commission (“SEC” or “Commission”) a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves.6 Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Trading Permit Holders in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”).7 The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).8

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee.9 As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing...
fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.11

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.12

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,”13 thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and Industry Members.14

Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).15 As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic.16 Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment,17 message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time.18 The Reportable Events may vary over time if the IM Reporting Tech Specs are amended.19 However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality.21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic.

10 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.
14 See Proposed CAT Fee Plan Amendment at 12–16. Note that, in the funding model set forth in Article XI of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Execution Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.
15 For additional discussions regarding the 75%–25% allocation, see Proposed CAT Fee Plan Amendment at 21–22.
16 For additional discussions regarding the use of message traffic for calculating Industry Member CAT fees, see Proposed CAT Fee Plan Amendment at 21–22.
17 See Proposed CAT Fee Plan Amendment at 26–27.
19 Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2d CAT Reporting is scheduled for December 2021, and Small Industry Non-OATS Reporters are not required to report until December 2021. In addition, certain Reportable Events, such as simple options manual orders and OTC link messages, are not required to be reported until later in the Phased Reporting. For a detailed description of such Reportable Events, see CAT Reporting Technical Specifications for Industry Members (available at www.catnmsplan.com). For the Industry Member CAT reporting timeline, see, e.g., FINRA Rule 6895(c). CAT costs will be allocated based on the Reportable Events reported to the CAT in any relevant quarter, regardless of whether all Industry Members are reporting to the CAT or all Reportable Events are required to be reported to the CAT for a relevant quarter. See Proposed CAT Fee Plan Amendment at 27.
21 See Proposed CAT Fee Plan Amendment at 27–30.
traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic. Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; and (2) all message traffic for which a "quote sent time" is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of quote sent times) by the total number of quotes received by the securities information processors ("SIP"). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks ("Equity Market Maker") would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks. Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed.

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of quote sent times) by the total number of quotes received by the securities information processors ("SIP"). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the

22 Section 1.1 of the CAT NMS Plan. Rule 7.20(ee) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.”
23 See Proposed CAT Fee Plan Amendment at 30-32.
24 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Options Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 31.
25 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 32.
26 See Proposed CAT Fee Plan Amendment at 32–33.
27 Note that Industry Members do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.
28 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 32.
29 For additional discussions regarding the CAT Data, see Proposed CAT Fee Plan Amendment at 33–35.
Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.31

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (b)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (b)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee.32 The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.33

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”).34 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended

---

31 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.

32 For additional discussions regarding the Maximum Industry Member CAT Fee, See Proposed CAT Fee Plan Amendment at 35–37.

33 See Proposed CAT Fee Plan Amendment at 50–51.

34 See Proposed CAT Fee Plan Amendment at 55–60.
to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones,\textsuperscript{35} certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to the market making discounts and the maximum fee). The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4th of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting.

As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting.

As indicated by the Participants’ Quarterly Progress Report,\textsuperscript{37} Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020. Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ....</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ....</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ....</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

\textsuperscript{35} See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.  
\textsuperscript{36} Q3 2020 Quarterly Progress Report (Oct. 30, 2020) [available at www.catnmsplan.com].  
\textsuperscript{37} Q4 2020 Quarterly Progress Report (Jan. 29, 2021) [available at www.catnmsplan.com].
(B) Period 3 CAT Fee

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Period 3 CAT Fee. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

The Exchange also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022</td>
<td>4th quarter of 2022.</td>
</tr>
</tbody>
</table>

See Proposed CAT Fee Plan Amendment at 60–65.
The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly Industry Member Allocation</th>
<th>CAT Data Used for Message Traffic Calculation</th>
<th>Payment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs

...
Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023.

To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “Each Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).” The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from third quarter of the relevant year.</td>
<td>4th quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from fourth quarter of the relevant year.</td>
<td>1st quarter of year following the relevant year.</td>
</tr>
</tbody>
</table>

(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment. Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “Each Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (A) the Prime Rate plus 300 basis points, or (B) the maximum rate permitted by applicable law.

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act, which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act, because it provides for the equitable allocation of reasonable dues, alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 68–69.

44 CAT NMS Plan Approval Order at 84792.
45 See Proposed CAT Fee Plan Amendment at 68–69.
46 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the
fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act,49 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.”50 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal further the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan.51 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among members, issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter[,]”52 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers,”53 as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act54 requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Trading Permit Holders. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee

---

50 CAT NMS Plan Approval Order at 48496.
51 See Proposed CAT Fee Plan Amendment at 70–79.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.
determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equivalently distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A) of the Act and paragraph (f) of Rule 19b–4 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission will institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR–C2–2021–008 on the subject line.

Paper Comments
- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–C2–2021–008. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–C2–2021–008 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09785 Filed 5–7–21; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations: The Nasdaq Stock Market LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”), and Rule 19b–4 thereunder, notice is hereby given that on April 21, 2021, The Nasdaq Stock Market LLC (“Nasdaq” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III, below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).


II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

56 See Proposed CAT Fee Plan Amendment at 78–79.
A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants. The Operating Committee has filed with the SEC a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”). The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves. Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Nasdaq members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”). The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vi)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the

4 Section 11.1(b) of the CAT NMS Plan.
6 Section 11.1(b) of the CAT NMS Plan.
7 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 21051 [sic]; 21074 [sic].
8 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 21051 [sic], 21054–55.
9 Proposed CAT Fee Plan Amendment at 21054–55.
10 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.
development and implementation of the CAT. 12 Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” 13 thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members. 14 Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”). 15 As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic. 16 Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment, 17 message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time. 18 The Reportable Events may vary over time if the IM Reporting Tech Specs are amended. 19 However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members. 20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality. 21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker 22 would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic. 23 Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; 24 and (2) all message traffic...
for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors ("SIP"). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period 25 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks. 26 Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, 27 regardless of where the order is ultimately routed or executed. 28

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period 29 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Equity Market Maker discount, the Exchange proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. 30 All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.31

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (b)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the

---

25 See Proposed CAT Fee Plan Amendment at 21058.
26 See Proposed CAT Fee Plan Amendment at 21058.
27 Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.
28 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = D. See CAT FAQ C5 (available at www.catimsplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.
29 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 21058.
30 For additional discussions regarding the Minimum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59.
31 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.
Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that if an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2) and applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4 of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”). Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones, certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to the market making discounts and the maximum fee). The message traffic fee

32 For additional discussions regarding the Maximum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59 [sic].
33 See Proposed CAT Fee Plan Amendment at 21063.
34 See Proposed CAT Fee Plan Amendment at 21064–65.
35 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4 of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress Report, Initial Industry Member Core Equity and Option Reporting was completed on schedule by July 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020. Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT NMS Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT NMS Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ..........</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT NMS Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ..........</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT NMS Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee. The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry

---

38 See Proposed CAT Fee Plan Amendment at 21065–66.
Member message by 1/4 of 75% of the Period 3 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of the 2021 Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4 of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4 of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4 of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4 of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4 of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4 of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members will be required to commence paying the Period 4 CAT Fee in the second quarter of 2023, based on data from the first quarter of 2023.

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that “each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4 of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the
Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation.

The Exchange understands that the Operating Committee will announce, via a CAT alert after the end of 2022, the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4 of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4 of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4 of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4 of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT Fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4 of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023: (1) the Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4 of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

The Exchange understands the Operating Committee will announce at the beginning of the relevant quarter via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses...
collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits.\textsuperscript{44} In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4 of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4 of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4 of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from third quarter of the relevant year.</td>
<td>4th quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4 of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from fourth quarter of the relevant year.</td>
<td>1st quarter of year following the relevant year.</td>
</tr>
</tbody>
</table>

(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the "Consolidated Audit Trail Funding Fees" section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment.\textsuperscript{45} Proposed paragraph (e)(1) would state that "Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period." Proposed paragraph (e)(2) would state that "Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)--(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated).

\textsuperscript{44} CAT NMS Plan Approval Order at 84792.
\textsuperscript{45} See Proposed CAT Fee Plan Amendment at 21068.

\textsuperscript{46} CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law.\textsuperscript{46}

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act,\textsuperscript{47} which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act,\textsuperscript{48} because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.”\textsuperscript{50} To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry

\textsuperscript{47} 15 U.S.C. 78f(b)(6).
\textsuperscript{49} 15 U.S.C. 78f(b)(8).
\textsuperscript{50} CAT NMS Plan Approval Order at 84696.
Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan. The Operating Committee determined that the Industry Member CAT fees provide for the equitable allocation of CAT costs among Industry Members and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of fees among members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers.” as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Nasdaq members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act.

51 See Proposed CAT Fee Plan Amendment at 21068–70.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.
55 See Proposed CAT Fee Plan Amendment at 21070.
If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–NASDAQ–2021–029 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–NASDAQ–2021–029. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml).Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–NASDAQ–2021–029 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09779 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–91762; File No. SR–
CboeBZX–2021–034]

Self-Regulatory Organizations; Cboe BZX Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Act").1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Cboe BZX Exchange, Inc. ("Exchange" or "BZX") filed with the Securities and Exchange Commission ("Commission") the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe BZX Exchange, Inc. (the "Exchange" or "Cboe BZX") proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the "CAT NMS Plan" or "Plan").3 The text of the proposed rule change is provided in Exhibit 5. The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/equities/regulation/rule_filings/bzx/), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) ("Operating Committee") has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the Securities and Exchange Commission ("SEC" or “Commission”) a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves.6 Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan

3 Unless otherwise specified, capitalized terms used in this rule filing are defined as set forth in the CAT Compliance Rule. See Rules 4.5 through 4.17 of the Exchange’s Rulebook. The Exchange and each of its affiliated exchanges (Cboe BYX Exchange, Inc., Cboe C2 Exchange, Inc., Cboe Exchange, Inc., Cboe EDGA Exchange, Inc., and Cboe EDGX Exchange, Inc.) are filing to adopt the CAT fee schedule.
5 See Section 11.1(b) of the CAT NMS Plan.
6 See Section 11.1(b) of the CAT NMS Plan.
Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”). The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee when calculating that Industry Member’s message traffic. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vi)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.

As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation

---

3. See Proposed CAT Fee Plan Amendment at 12–16. Note that, in the funding model set forth in Article XI of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Execution Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.
4. For additional discussions regarding the 75%/25% allocation, see Proposed CAT Fee Plan Amendment at 16–20.
of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic. Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment, message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time. The Reportable Events may vary over time if the IM Reporting Tech Specs are amended. However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognizes that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality.21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(1) Options Market Maker Discount

Each Industry Member that is an Options Market Maker 22 would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic.23 Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; 24 and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period 25 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “(w)hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message

16 For additional discussions regarding the use of message traffic for calculating Industry Member CAT fees, see Proposed CAT Fee Plan Amendment at 21–22.
17 See Proposed CAT Fee Plan Amendment at 26–27.
19 Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2d CAT Reporting is scheduled for December 2021, and Small Industry Non-OATS® Reporters are not required to report until December 2021. In addition, certain Reportable Events, such as simple options manual orders and OTC link messages, are not required to be reported until later in the Phased Reporting. For a detailed description of such Reportable Events, see CAT Reporting Technical Specifications for Industry Members (available at www.catnmsplan.com). For the Industry Member CAT reporting timeline, see, e.g., FINRA Rule 6895(c). CAT costs will be allocated based on the Reportable Events reported to the CAT in any relevant period of whether all Industry Members are reporting to the CAT or all Reportable Events are required to be reported to the CAT for a relevant quarter. See Proposed CAT Fee Plan Amendment at 27.
20 The CAT Reporting Customer and Account Technical Specifications for Industry Members are available at www.catnmsplan.com. For the Industry Member CAT reporting timeline, see, e.g., FINRA Rule 6895(c). CAT costs will be allocated based on the Reportable Events reported to the CAT in any relevant period. See Proposed CAT Fee Plan Amendment at 27–30.
21 Section 1.1 of the CAT NMS Plan, Rule 4.3(e) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.”
22 See Proposed CAT Fee Plan Amendment at 30–32.
23 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Options Market Maker with an accountholderType = O. See CAT FAQ G5 (available at www.catnmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountholderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 31.
24 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 32.
traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks.

Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed.

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member AccountHolderType = O.

(III) Options Market Maker Discount

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fees is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Annual Push Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee would be subject to a Maximum Industry Member CAT Fee.
will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage ("Maximum Industry Member CAT Fee Re-Allocation").

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.33

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”).34 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones,35 certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4th of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation).

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment at 50–51.

33 See Proposed CAT Fee Plan Amendment at 50–51.
34 See Proposed CAT Fee Plan Amendment at 55–60.
35 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress Report, the Initial Industry Member Core Equity and Option Reporting was completed on schedule by July 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants’ Quarterly Progress Report, Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020.

Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee. The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic...
based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021, the date of Full Availability and Regulatory Utilization of Transactional Database Functionality. As discussed above, the Period 3 CAT Costs to be recovered via the Period 3 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2020 through December 31, 2021. The collection of the full amount of the Period 3 CAT Fee will depend upon achievement of Full Availability and Regulatory Utilization of Transactional Database Functionality by December 31, 2021; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee “[subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs 39.</td>
<td>CAT Data from first quarter of 2022 ..........</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022 ..........</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022 ..........</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022 ..........</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. 40 The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and

---

39 The Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

40 See Proposed CAT Fee Plan Amendment at 63–65.
operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”).42 The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic.43 The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits.44 In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

43 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.
44 See Proposed CAT Fee Plan Amendment at 65–68.
(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment.45

Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated).

If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (A) the Prime Rate plus 300 basis points, or (B) the maximum rate permitted by applicable law.46

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act,47 which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act,48 because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act,49 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.” 50 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan.51 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,” 52 as required by the Exchange Act. The Operating Committee determined that the CAT

45  See Proposed CAT Fee Plan Amendment at 68–69.
46 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 69.
50  CAT NMS Plan Approval Order at 84696.
51 See Proposed CAT Fee Plan Amendment at 70–79.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A) of the Act and paragraph (f) of Rule 19b–4 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission may suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission will institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act.

53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.


55 See Proposed CAT Fee Plan Amendment at 78–79.


Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR-ChoeBZX–2021–034 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR-ChoeBZX–2021–034. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR-ChoeBZX–2021–034 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.58

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09769 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Nasdaq PHLX LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Nasdaq PHLX LLC (“Phlx” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III, below, which items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is available on the Exchange’s website at https://listingcenter.nasdaq.com/rulebook/phlx/rules, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the SEC a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves.6 Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Phlx members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

While these amendments are effective upon filing, the Exchange has designated the proposed amendments to be operative following Commission approval of the Join [sic] Industry Plan Amendment to the National Market System Plan Governing the Consolidated Audit Trail filed on March 31, 2021.7

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing, and operating the CAT for the relevant

3 Unless otherwise specified, capitalized terms used in this rule filing are defined as set forth in Nasdaq General 7 (Consolidated Audit Trail Compliance) (Phlx General 7 incorporates The Nasdaq Stock Market LLC General 7 by reference).
4 Section 11.1(b) of the CAT NMS Plan.
6 Section 11.1(b) of the CAT NMS Plan.
quarter (“Total CAT Costs”). The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NASDAQ Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan requires Members to pay a CAT fee. Rule 613(a)(8)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.” In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members. Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”). As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry

---

8 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 21051 [sic], 21074 [sic].

9 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 21051 [sic].
Member based on message traffic. Each Industry Member CAT Reporter would charge CAT fees that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Association, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment, message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time. The Reportable Events may vary over time if the IM Reporting Tech Specs are amended. However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Specifications for Industry Members available at www.catnmsp.com.

The Reportable Events for Industry Members are available at www.catnmsp.com. Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2d CAT Reporting is scheduled for December 2021, and Small Industry Non-OATS Reporters are not required to report until December 2021. In addition, certain Reportable Events, such as simple options manual orders and OTC link messages, are not required to be reported until later in the Phased Reporting. For a detailed description of such Reportable Events, see CAT Reporting Technical Specifications for Industry Members (available at www.catnmsp.com). For the Industry Member CAT reporting timeline, see, e.g., FINRA Rule 6895(c). CAT costs will be allocated based on the Reportable Events reported to the CAT in any relevant quarter, regardless of whether all Industry Members are reporting to the CAT or all Reportable Events are required to be reported to the CAT for a relevant quarter. See Proposed CAT Fee Plan Amendment at 27.

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality. For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic. Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%. Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Association, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to discounts for market making activity in the CAT.

25 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Options Market Maker with an accountFolderType = O. See CAT FAQ C5 (available at www.catnmsp.com). The discount would not apply to messages by an Industry Member that are associated with any other accountFolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.

applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks ("Equity Market Maker") would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks.27 Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered,28 regardless of where the order is ultimately routed or executed.29

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade bursts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period30 by the Industry Member

27 See Proposed CAT Fee Plan Amendment at 21058.

28 Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.

29 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.

30 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Industry Members during the relevant time period30 by the Industry Member

Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee. To implement the Equity Market Maker discount, the Exchanges proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic.31 All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”). In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee.32 The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fees schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that if an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any

32 For additional discussions regarding the Maximum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59 (sic).
excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.34

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (j)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.”

Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”). Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones,35 certain costs from Period 1 of the Financial Accountability Milestones,36 certain costs from Period 1 of the Historical CAT Assessment owed by each Industry Member would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “[e]ach Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter, Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

34 See Proposed CAT Fee Plan Amendment at 21064–65.

35 See Proposed CAT Fee Plan Amendment at 21064–65.

36 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
Industry Member CAT Fee, the
Maximum Industry Member CAT Fee
Re-Allocation and the Minimum
Industry Member CAT Fee Re-
Allocation)."

In accordance with Section 11.6(b) of
the CAT NMS Plan and as provided in
the Proposed CAT Fee Plan
Amendment, the proposed Historical
CAT Assessment seeks to recover costs
that are related to Post-Amendment
Expenses incurred during Period 1.
Period 1 began on June 22, 2020, the
effective date of Section 11.6 of the CAT
NMS Plan, and concluded on July 31,
2020, the date of Initial Industry
Member Core Equity and Options
Reporting. As indicated by the
Participants' Quarterly Progress
Report,"37 Initial Industry Member Core
Equity and Option Reporting was
completed on schedule by July 31, 2020.

As discussed above, the Historical CAT
Assessment Costs to be recovered via
the Historical CAT Assessment would
include fees, costs and expenses
incurred by or for the Company in
connection with the development,
implementation and operation of the
CAT during the period from June 22,

As provided in the Proposed CAT Fee
Plan Amendment, the proposed
Historical CAT Assessment seeks to
recover costs that are related to Post-
Amendment Expenses incurred during
Period 2. Period 2 began on August 1,
2020, and concluded on December 31,
2020, the date of the Full
Implementation of Core Equity
Reporting. As indicated by the
Participants’ Quarterly Progress
Report,"38 Full Implementation of Core
Equity Reporting was completed on
schedule by December 31, 2020. As
discussed above, the Historical CAT
Assessment Costs to be recovered via
the Historical CAT Assessment would
include fees, costs and expenses
incurred by or for the Company in
connection with the development,
implementation and operation of the
CAT during the period from August 1,

Accordingly, proposed paragraph (b) of
the “Consolidated Audit Trail Funding
Fees” section of its fee schedule would
state that Industry Members will be
required to pay the Historical CAT
Assessment “subject to the
requirements of Section 11.6 of the CAT
NMS Plan.”

The following chart summarizes the
imposition of the Historical CAT
Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ......</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ......</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ......</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ......</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan
Amendment, the Operating Committee
determined to charge Industry
Members a quarterly fee to recover a
percentage of the Total CAT Costs
incurred from January 1, 2021 through
December 31, 2021, referred to as the
Period 3 CAT Fee."39 The Total CAT
Costs incurred from January 1, 2021
through December 31, 2021 ("Period 3
CAT Costs") will be calculated at the
collection of 2021. Specifically, the
Period 3 CAT Costs will be the total
actual costs incurred for the CAT for
2021 as set forth in the 2021 financial
statements for the Company.

Using the Period 3 CAT Costs, as set
forth in the Proposed CAT Fee Plan
Amendment, the Operating Committee
will calculate the Period 3 CAT Fee
owed by each Industry Member in
accordance with the CAT Funding
Model. Per the Proposed CAT Fee Plan
Amendment, the Operating Committee
plans to recover Period 3 CAT Costs
over a period of four calendar quarters,
commencing in 2022. Each quarter, each
Industry Member will pay the greater of
the minimum fee of $125 or the Industry
Member’s fee calculated based on
message traffic. The message traffic fee
would be calculated by multiplying the
percentage of the Industry Member’s
message traffic of the total Industry
Member message by 1/4th of 75% of the
Period 3 CAT Costs traffic (subject to
applicable discounts for Options Market
Maker message traffic and Equity
Market Maker message traffic, the
Maximum Industry Member CAT Fee,
the Maximum Industry Member CAT
Fee Re-Allocation and the Minimum
Industry Member CAT Fee Re-
Allocation). Each Industry Member’s
message traffic would be calculated
using CAT Data from the prior quarter.
Industry Members would be required to
commence paying the Period 3 CAT Fee
in the second quarter of 2022, based on
CAT Data from the first quarter of 2022.

The Exchange understands that the
Operating Committee will announce via
a CAT alert after the end of 2021 the
Total CAT Costs for 2021 to be used in
calculating the quarterly Period 3 CAT
Fees. Such Total CAT Costs will be set
forth in the year-end financial
statements of the Consolidated Audit
Trail, LLC. Such financial statements
are required to be prepared in
accordance with Section 9.2 of the CAT
NMS Plan, including requirements
related to compliance with GAAP,
auditing by an independent public
accounting firm and making the
statements publicly available.

To implement the Period 3 CAT Fee,
the Exchange proposes to add proposed
paragraph (c) to the “Consolidated
Audit Trail Funding Fees” section of its
fee schedule. Proposed paragraph (c)
would state that “each Industry Member
shall pay a Period 3 CAT Fee in the
amount of the greater of the following
each quarter for four quarters
commencing in the second quarter of
2022: (1) Minimum Industry Member
CAT Fee (plus any applicable Maximum
Industry Member CAT Fee Re-
Allocation); or (2) the amount calculated
by multiplying the percentage of the
Industry Member’s message traffic of
the total Industry Member message traffic

39 See Proposed CAT Fee Plan Amendment at 21065–66.
based on the prior quarter's message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021. As set forth in the Proposed CAT Fee Plan Amendment at 11.6 of the CAT NMS Plan, the Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the proposed Period 4 CAT Fee. As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee.41 The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 ("Period 4 CAT Costs") will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2021 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member's fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member's message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

The following chart summarizes the proposed Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022 ..........</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022 .......</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022 .........</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022 .........</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Availability and Regulatory Utilization of Transaction Database Functionality by December 30, 2022; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee "[subject to the requirements of Section 11.6 of the CAT NMS Plan."

The following chart summarizes the proposed Period 3 CAT Fee:

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee.41 The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 ("Period 4 CAT Costs") will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2021 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

The following chart summarizes the proposed Period 3 CAT Fee:
The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023 ..........</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023 ..........</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023 ..........</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023 ..........</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model ("Quarterly CAT Fee"). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023. To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “[e]ach Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>1/4th of 75% of the budgeted annual CAT costs</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>1/4th of 75% of the budgeted annual CAT costs</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year.</td>
</tr>
</tbody>
</table>

42 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company. See Proposed CAT Fee Plan Amendment at 21067–68.

43 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 21067.

44 CAT NMS Plan Approval Order at 84792.
(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the "Consolidated Audit Trail Funding Fees" section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment. 46 Proposed paragraph (e)(1) would state that "Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, ‘‘CAT Fees’’) for each payment period." Proposed paragraph (e)(2) would state that "Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations." Proposed paragraph (e)(3) would state that "[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC." Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law. 47

2. Statutory Basis

The Exchange believes that the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act, 48 which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act, 49 because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act 50 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that "[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves." Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan "is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act." 51 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan. 52 The Operating Committee determined that the Industry Member CAT fees provide for the equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter. 53 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the CAT NMS Plan Approval Order at 84696. 51

46 See Proposed CAT Fee Plan Amendment at 21068.

47 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the

alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 21068.


Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers,” as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Phlx members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) Necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–Phlx–2021–25 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–Phlx–2021–25. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent
amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–Phil–2021–25 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.58

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–00778 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; MEMX LLC; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change Related to the Handling of Displayed Odd Lot Orders and Non-Displayed Orders That Become Locked or Crossed

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 30, 2021, MEMX LLC (“MEMX” or “Exchange”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Exchange filed the proposal as a “non-controversial” proposed rule change pursuant to Section 19(b)(3)(A)(iii) of the Act3 and Rule 19b–4(f)(6) thereunder.4 The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange is filing with the Commission a proposed rule change related to: (1) The handling of a Limit Order of Odd Lot size with a Displayed instruction that is resting on the MEMX Book and subsequently becomes locked or crossed by an away Trading Center’s Protected Quotation; and (2) the handling of a Limit Order with a Non-Displayed instruction that is resting on the MEMX Book and subsequently becomes crossed by an away Trading Center’s Protected Quotation.5 The text of the proposed rule change is provided in Exhibit 5.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Introduction

The Exchange proposes to make changes to the Exchange’s Rules related to the handling of a Limit Order6 of Odd Lot 7 size with a Displayed8 instruction (a “Displayed Odd Lot Order”) that is resting on the MEMX Book9 and subsequently becomes locked or crossed by an away Trading Center’s10 Protected Quotation.11 In addition, the Exchange proposes to make changes to the Exchange’s Rules related to the handling of a Limit Order with a Non-Displayed12 instruction (a “Non-Displayed Order”) that is resting on the MEMX Book and subsequently becomes crossed by an away Trading Center’s Protected Quotation.

The Exchange’s Rules currently describe all functionality with respect to orders of Round Lot, Mixed Lot and Odd Lot size without distinction because the Exchange generally handles these orders the same. However, the Exchange’s System currently handles Displayed Odd Lot Orders differently than other orders in specific market circumstances, as described below. The Exchange proposes to codify this behavior as set forth in proposed Rules 11.6(j) and 11.8(b)(6). In addition, the Exchange proposes a change to current functionality with respect to orders with an Odd Lot size and orders with a Non-Displayed instruction that are eligible to be routed, as further described below.

5 All terms as further defined below.
6 Limit Orders are described in Exchange Rule 11.8(b) and generally defined as an order to buy or sell a stated amount of a security at a specified price or better.

1 The term “Odd Lot” refers to any amount less than a Round Lot. Orders of Odd Lot size are only eligible to be Protected Quotations if aggregated to form a Round Lot. The term “Round Lot” refers to one hundred (100) shares or any multiple thereof, unless an alternative number of shares is established as a Round Lot by the listing exchange for the security. Orders that are a Round Lot are eligible to be Protected Quotations. See Exchange Rule 11.6(j).
2 The term “Displayed” refers to an instruction a User may attach to an order stating that the order is to be displayed by the System on the MEMX Book. See Exchange Rule 11.6(j)(1).
3 The term “MEMX Book” refers to the System’s electronic file of orders. See Exchange Rule 1.5(j). The term “System” refers to the electronic communications and trading facility designated by the Board through which securities orders of Users are consolidated for ranking, execution and, when applicable, routing. See Exchange Rule 1.5(g). The term “User” refers to any Member or Sponsored Participant who is authorized to obtain access to the System. See Exchange Rule 1.5(i).
4 The term “Trading Center” refers to other securities exchanges, facilities of securities exchanges, automated trading systems, electronic communications networks or other brokers or dealers.
5 The term “Protected Quotation” refers to a quotation that is a Protected Bid or Protected Offer. The term “Protected Bid” or “Protected Offer” refers to a bid or offer in a stock that is (i) displayed by an automated trading center; (ii) disseminated pursuant to an effective national market system plan; and (iii) an automated quotation that is the best bid or best offer of a national securities exchange or association, See Exchange Rule 1.5(a).
6 The term “Non-Displayed” refers to an instruction a User may attach to an order stating that the order is not to be displayed by the System on the MEMX Book. See Exchange Rule 11.6(c)(6).
Displayed Odd Lot Orders

Currently, when an away Trading Center publishes a Protected Quotation that locks or crosses the displayed price of a Displayed Odd Lot Order and the Exchange does not have a Protected Quotation displayed at such price, such order will be cancelled by the System unless such order contains a multiple price sliding instruction, in which case such order will be re-priced pursuant to Rule 11.6(j)(1)(A). The Exchange proposes to add language to this effect to Rule 11.8(b)(8), which currently addresses the handling of Limit Orders in certain circumstances where such orders would cross Protected Quotations of other Trading Centers. As proposed, under Rule 11.8(b)(6), when an away Trading Center publishes a Protected Quotation that locks or crosses the displayed price of a resting Limit Order of Odd Lot size with a Displayed instruction and the Exchange does not have a Protected Quotation displayed at such price, such order will be cancelled by the System unless such order contains a multiple price sliding instruction, in which case such order will be re-priced pursuant to Rule 11.6(j)(1)(A), or the order is routed, as described below. The Exchange also proposes to codify in such Rule.

In addition to the changes described above with respect to Rule 11.8(b)(8), the Exchange proposes to codify the re-pricing functionality applied to Displayed Odd Lot Orders with a multiple price sliding instruction that are subsequently locked or crossed by other Trading Centers. As background, the Exchange currently offers price sliding functionality that allows display-eligible orders to be permissibly ranked and displayed in accordance with Regulation NMS. Pursuant to this price sliding functionality, an order that would be a Locking or Crossing Quotation of an away Trading Center if displayed by the System on the MEMX Book at the time of entry will be ranked at the Locking Price in the MEMX Book (i.e., executable at that price but not displayed) and displayed by the System one Minimum Price Variation away (i.e., lower for a bid or higher for an offer). In turn, once an order has been permissibly displayed by the System, such order will generally only be re-ranked and re-displayed to the extent it achieves a more aggressive price. In other words, once an order is displayed on the MEMX Book it will stand its ground and not be re-priced to a less aggressive price even if other Trading Centers publish Protected Quotations that lock or cross its displayed price except in two circumstances described below: one of these circumstances is already described in MEMX Rule 11.6(j)(1)(A)(ii) and the other circumstance the Exchange proposes to codify in such Rule.

As currently set forth in Rule 11.6(j)(1)(A)(ii), the Exchange will re-price an order resting on the MEMX Book that is subject to display-price sliding when an away Trading Center publishes a Protected Quotation at a price that locks or crosses such order’s displayed price. In such circumstance, the Exchange will re-rank the order subject to display-price sliding so that the order’s ranked price is the same price as the displayed price. The Exchange re-ranks an order to a less aggressive price in this circumstance to avoid potentially trading through a Protected Quotation displayed by another Trading Center (i.e., the ranked price, which is not displayed and not permitted to stand its ground, is changed to a less aggressive price to be the same price as the displayed price).

In addition to the exception set forth in Rule 11.6(j)(1)(A)(ii) described above, the Exchange also currently re-prices a Displayed Odd Lot Order with a multiple price sliding instruction to a less aggressive price when the Exchange is not displaying a Protected Quotation at the displayed price of such order and such order’s displayed price is locked or crossed by a Protected Quotation published by an away Trading Center. Specifically, when an away Trading Center publishes a Protected Quotation that locks or crosses the displayed price of a resting Displayed Odd Lot Order with a multiple price sliding instruction and the Exchange does not have a Protected Quotation displayed at such order’s displayed price, the resting Displayed Odd Lot Order is re-ranked at the Locking Price in the MEMX Book and re-displayed by the System at one Minimum Price Variation lower (higher) than the Locking Price for an order to buy (sell). The Exchange proposes to codify this behavior through both the proposed amendment to Rule 11.8(b)(8), discussed above, and a proposed amendment to Rule 11.6(j)(1)(A)(iii).

The final codification of existing behavior proposed by the Exchange relates to the Exchange’s handling of a Displayed Odd Lot Order subject to Rule 201 of Regulation SHO that is subsequently locked or crossed. As set forth in Rule 11.6(j)(2)(A), the Exchange cancels any Non-Displayed instruction subject to Rule 201 of Regulation SHO when the NBBO changes such that the order would be a Locking Quotation or Crossing Quotation. Because Displayed Odd Lot Orders are displayed on the Exchange’s proprietary data feed but not on the consolidated market data feeds, the Exchange applies this same logic to Displayed Odd Lot Orders when such orders are subject to Rule 201 of Regulation SHO (i.e., marked short and a Short Sale Circuit Breaker is in effect). Accordingly, the Exchange cancels any Displayed Odd Lot Order subject to Rule 201 of Regulation SHO when the NBBO locks or crosses the price of such an order and proposes to add language to this effect to Rule 11.6(j)(2)(A) to codify this behavior.

In addition to codifying the current functionality regarding the handling of Displayed Odd Lot Orders that are locked or crossed by other Trading Centers as described above, the Exchange proposes to add functionality to route such orders in this circumstance to the extent the orders are eligible to be routed. Based on the proposed amendment to Rule 11.8(b)(8), when a Displayed Odd Lot Order is locked or crossed by a Protected Quotation published by another Trading Center and such order is eligible for routing such order will be routed according to the User’s instructions. The Exchange believes that a User that has originally designated an order as a routable order (thus willing to remove liquidity from an away Trading Center on entry), instead of having an order of Odd Lot size canceled or price slid, would prefer to have such order routed as is subsequently locked or crossed by a Protected Quotation published by another Trading Center.

Examples

The below examples illustrate the proposed behavior for a Displayed Odd Lot Order.

Assume the National Best Bid and Offer ("NBBO") is $10.00 by $10.10. An order to sell 5 shares of security ABC is displayed on the MEMX Book at $10.07 ("Order 1"). Order 1 has a Short Sale instruction, however, security ABC is not currently subject to a Short Sale Circuit Breaker pursuant to Rule 201 of Regulation SHO. There are no other orders to buy or sell security ABC resting on the MEMX Book. An away Trading Center publishes a Protected Bid to buy 100 shares of security ABC at $10.08, thus updating the NBBO to $10.08 by $10.10. The handling of Order 1 will depend on the User’s instructions for the order, with three potential outcomes:

1. If Order 1 has a multiple price sliding instruction, then the order will...
be re-priced and ranked to sell at $10.08 and re-displayed at $10.09.
• If Order 1 is eligible for routing, then the order will be routed with a limit price of $10.07 to attempt to execute against the Protected Bid displayed at $10.08 by the away Trading Center.
• If Order 1 does not have a multiple price sliding instruction and is ineligible for routing, then the order will be cancelled.

Assume the same example as above, however, instead assume that security ABC is currently subject to a Short Sale Circuit Breaker pursuant to Rule 201 of Regulation SHO. If an away Trading Center publishes a Protected Bid to buy 100 shares of security ABC at $10.08, thus updating the NBBO to $10.08 by $10.10, Order 1 will be cancelled. This outcome is the same even if such order has a multiple price sliding instruction or was submitted as a routable order.

Non-Displayed Orders
As set forth in current Rule 11.8(b)(8), when a Non-Displayed Order would be a Crossing Quotation if displayed at the price at which it is ranked (i.e., when an away Trading Center publishes a Protected Quotation that crosses the ranked price of such an order), the Exchange cancels such order in order to prevent a trade-through that would occur if such order were instead executed at its ranked price. The Exchange proposes to maintain this behavior for Non-Displayed Orders (including orders of Round Lot, Mixed Lot and Odd Lot size) that are not routable; however, consistent with the proposed change above regarding routable Displayed Odd Lot Orders, the Exchange proposes to route a Non-Displayed Order in such circumstance if the order is routable. Accordingly, the Exchange proposes to amend Rule 11.8(b)(8) so that a Non-Displayed Order that is eligible for routing will route according to a User’s instructions when such order would be a Crossing Quotation of another Trading Center. As is the case today, if a Non-Displayed Order is not eligible for routing and an away Trading Center publishes a Protected Quotation that crosses the ranked price of such order, the order will be cancelled.

Examples
The below examples illustrate the proposed behavior for a Non-Displayed Order.

Again, assume the National Best Bid and Offer (“NBBO”) is $10.00 by $10.10. An order to sell 100 shares of security ABC is resting non-displayed on the MEMX Book at $10.07 (“Order 2”). Order 2 has a Short Sale instruction, however, security ABC is not currently subject to a Short Sale Circuit Breaker pursuant to Rule 201 of Regulation SHO. There are no other orders to buy or sell security ABC resting on the MEMX Book. An away Trading Center publishes a Protected Bid to buy 100 shares of security ABC at $10.08, thus updating the NBBO to $10.08 by $10.10. The handling of Order 2 will depend on the User’s instructions for the order, with two potential outcomes:
• If Order 2 is eligible for routing, then the order will be routed with a limit price of $10.07 to attempt to execute against the Protected Bid displayed at $10.08 by the away Trading Center.
• If Order 2 is ineligible for routing, then the order will be cancelled.

Assume the same example as above, however that security ABC is currently subject to a Short Sale Circuit Breaker pursuant to Rule 201 of Regulation SHO. If an away Trading Center publishes a Protected Bid to buy 100 shares of security ABC at $10.08, thus updating the NBBO to $10.08 by $10.10, Order 2 will be cancelled. This outcome is the same even if such order was submitted as a routable order.

Additional Discussion
The Exchange has implemented its System functionality in order to maintain compliance with Regulation NMS, Regulation SHO and other applicable regulations. The functionality described above, both current and proposed, is designed to ensure that the Exchange does not display quotations that would lock or cross Protected Quotations of other Trading Centers nor maintain orders at price levels at which, if executed, would trade through Protected Quotations (or at the NBB in the context of an order subject to Rule 201 of Regulation SHO). Although the exact treatment of orders of Odd Lot size described above is not explicitly required by these regulations, and indeed the Exchange could have adopted a different implementation with respect to certain points, the Exchange does believe that its implementation is consistent with such regulations and the Act, generally. In particular, although Displayed Odd Lot Orders are technically displayed by the System and thus can be accessed by market participants, such orders are not Protected Quotations and are not displayed on consolidated market data feeds. As such, the Exchange’s current implementation that it is proposing to codify treats such orders in certain ways similar to the manner in which the Exchange handles Non-Displayed Orders. Further, the Exchange believes that its proposed new functionality with respect to routing proposes sufficient optionality for Users of the Exchange to determine how they wish to have their Displayed Odd Lot Orders handled in the event such orders are locked or crossed by a Protected Quotation published by an away Trading Center. In particular, by offering the ability to either be canceled, re-priced or routed away from the Exchange, the Exchange believes that Users will be able to select their preferred order handling. The Exchange similarly believes that its proposed new functionality with respect to routing Non-Displayed Orders would enable Users to select their preferred order handling with respect to such orders when an away Trading Center publishes a Protected Quotation that crosses the ranked price of such an order.

Based on a review of the current rules of other exchanges, certain aspects of the Exchange’s current handling of Displayed Odd Lot Orders is unique and some exchanges allow such orders to stand their ground when an odd lot order is crossed by a Protected Quotation published by another Trading Center.15 However, other exchanges have previously maintained similar functionality to instead cancel, route or re-price odd lot orders in such a circumstance. For instance, the Chicago Stock Exchange (“CHX”) previously offered functionality approved by the Commission that, like the Exchange’s proposed functionality, treated odd lot orders and unexecuted odd lot remainders in a manner similar to non-displayed orders when CHX had no displayed round lots at a particular price level and thus allowed such orders to be cancelled or routed away from CHX.16 Similarly, NYSE Arca, Inc. (“Arca”) previously maintained special functionality to re-price odd lot orders when such orders were resting on the Arca order book based on changes to the protected best bid and offer (“PBBO”).17

15 See, e.g., NYSE Rule 7.38, which states that round lot, mixed lot and odd lot orders are treated in the same manner on NYSE, and NYSE Rule 7.36(b)(4), which states that NYSE does not adjust the display price of limit orders on NYSE that have been locked or crossed.
While the Exchange is not aware of another exchange that currently cancels a Displayed Odd Lot Order subject to Rule 201 of Regulation SHO when the NBB locks or crosses the price of such order, other exchanges have implemented functionality to treat displayed odd lots the same way that non-displayed orders are treated in the context of functionality to comply with Regulation SHO. As described above, the Exchange cancels a Displayed Odd Lot Order subject to Rule 201 of Regulation SHO when the NBB locks or crosses the price of such an order to maintain consistent functionality with that used to handle orders resting on the MEMX Book with a Non-Displayed instruction.

With respect to the proposed option to have a resting Displayed Odd Lot Order or Non-Displayed Order that is locked and/or crossed by another Trading Center, as applicable, routed to such Trading Center, the Exchange notes that similar behavior is available on other exchanges with a variety of options and distinct implementations. Thus, the Exchange believes that its proposed implementation, allowing Displayed Odd Lot Orders and Non-Displayed Orders to route away from the Exchange when locked and/or crossed by a Protected Quotation published by an away Trading Center, is consistent with such features currently offered by other exchanges.

2. Statutory Basis

The Exchange believes that the proposed rule change is consistent with Section 6(b) of the Act in general, and furthers the objectives of Section 6(b)(5) of the Act in particular, in that it is designed to promote just and equitable principles of trade, to foster cooperation and coordination with persons engaged in facilitating transactions in securities, to remove impediments to and perfect the mechanism of a free and open market and a national market system and, in general, to protect investors and the public interest.

The proposed changes to the Exchange’s Rules currently are designed to promote just and equitable principles of trade, to foster cooperation and coordination with persons engaged in facilitating transactions in securities, to remove impediments to and perfect the mechanism of a free and open market and a national market system and, in general, to protect investors and the public interest.

The Exchange notes that other exchanges have previously maintained functionality specific to orders of odd lot size that resulted in such orders being routed, cancelled or their price adjusted. Finally, by limiting this aspect of the proposed change to Displayed Odd Lot Orders that are locked or crossed by the Protected Quotation published by an away Trading Center, the proposal retains existing functionality with respect to the handling of all other orders with a Displayed instruction and remains consistent with the Exchange’s general handling of Non-Displayed Orders. Although aspects of the Exchange’s implementation of order handling rules for odd lots that are subsequently locked or crossed by a Protected Quotation published by an away Trading Center are unique compared to existing functionality on other exchanges and the because prohibitions against both locked and crossed markets and trade-throughs do not apply to odd lot orders, pursuant to guidance published by Commission staff, exchanges are permitted to establish their own rules for handling odd-lot orders and the odd-lot portions of mixed-lot orders, and the Exchange believes its implementation is consistent with such guidance and the applicable regulations, generally.

The Exchange further believes that routing orders away from the Exchange, whether Displayed Odd Lot Orders or Non-Displayed Orders, when such orders were routeable upon initial entry to the Exchange and such orders would otherwise be cancelled is consistent with the Act, as it avoids unnecessary cancellations of orders that could instead be executed by away Trading Centers. Further, as described above, the Exchange notes that similar behavior is in place on other exchanges.

For the reasons set forth above, the Exchange believes the proposal promotes just and equitable principles of trade, fosters cooperation and coordination with persons engaged in facilitating transactions in securities, removes impediments to and perfects the mechanism of a free and open market and a national market system, and, in general, protects investors and the public interest.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the proposed rule change will result in
any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act, as amended. On the contrary, certain of the proposed changes are intended to codify current behavior on the Exchange related to the Exchange’s implementation of applicable regulations and the other proposed changes are intended to provide additional optionality to the User, including the routing of orders that are already resting on the MEMX Book to away Trading Centers if such orders were routable upon initial entry to the Exchange. Thus, to the extent the change is intended to improve transparency regarding the Exchange’s handling of Displayed Odd Lot Orders, such proposal does not have any direct impact on the competitive environment. The proposed change to functionality on the Exchange that would route certain orders resting on the MEMX Book is designed to encourage Users to direct their orders to the Exchange, however, while the change is competitive, the Exchange does not believe the proposed change will result in any burden on intermarket competition as it is a minor change to already available functionality. Further, the proposed new functionality is similar to functionality offered by other exchanges and would also result in additional volume on away Trading Centers instead of the Exchange, to the extent such orders are executed when routed away from the Exchange. The proposed changes to the Exchange’s Rules also promote intramarket competition because they will facilitate the execution of orders that would otherwise remain unexecuted, thereby increasing the efficient functioning of the Exchange. All participants on the Exchange can utilize each of the potential features that will impact the handling of their Displayed Odd Lot Orders and Non-Displayed Orders in the event such orders are resting on the Exchange at a price that is subsequently locked or crossed by a Protected Quotation displayed by an away Trading Center. Therefore, the Exchange does not believe the proposed rule change will result in any burden on intramarket competition that is not necessary or appropriate in furtherance of the purposes of the Act.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The Exchange has filed the proposed rule change pursuant to Section 19(b)(3)(A)(iii) of the Act 25 and Rule 19b–4(f)(6) thereunder. 26 Because the proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative prior to 30 days from the date on which it was filed, or such shorter time as the Commission may designate, if consistent with the protection of investors and the public interest, the proposed rule change has become effective pursuant to Section 19(b)(3)(A) of the Act 27 and subparagraph (f)(6) of Rule 19b–4 thereunder. 28

A proposed rule change filed under Rule 19b–4(f)(6) 29 normally does not become operative prior to 30 days after the date of its filing. However, Rule 19b–4(f)(6)(iii) 30 permits the Commission to designate a shorter time if such action is consistent with the protection of investors and the public interest. The Exchange has asked the Commission to waive the 30-day operative delay so that the proposal may become operative upon filing. The Exchange believes a waiver is consistent with the protection of investors and the public interest because, among other things, it would allow the Exchange to route certain odd lot orders as soon as practicable, thus helping market participants to obtain timely executions even if not on the Exchange. The Commission believes that waiver of the 30-day operative delay is consistent with the protection of investors and the public interest because the proposed rule change does not raise any new or novel issues. Among other things, the proposed order handing functionalities are similar to the past practices of other exchanges. Accordingly, the Commission hereby waives the operative delay and designates the proposed rule change operative upon filing so that the benefits of this proposed rule change can be realized immediately. 31 At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings under Section 19(b)(2)(B) 32 to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–MEMX–2021–06 on the subject line.

Paper Comments
• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–MEMX–2021–06. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public

30 17 CFR 240.19b–4(f)(6)(iii). In addition, Rule 19b–4(f)(6)(iii) requires a self-regulatory organization to give the Commission written notice of its intent to file the proposed rule change, along with a brief description and text of the proposed rule change, at least five business days prior to the date of filing of the proposed rule change, or such shorter time as designated by the Commission. The Exchange has satisfied this requirement.
31 For purposes only of waiving the 30-day operative delay, the Commission also has considered the proposed rule’s impact on efficiency, competition, and capital formation. See 15 U.S.C. 78s(b)(3)(A).
SECURITIES AND EXCHANGE COMMISSION

Sunshine Act Meetings

TIME AND DATE: 2:00 p.m. on Thursday, May 13, 2021.

PLACE: The meeting will be held via remote means and/or at the Commission’s headquarters, 100 F Street NE, Washington, DC 20549.

STATUS: This meeting will be closed to the public.

MATTERS TO BE CONSIDERED:
Commissioners, Counsel to the Commissioners, the Secretary to the Commission, and recording secretaries will attend the closed meeting. Certain staff members who have an interest in the matters also may be present.

In the event that the time, date, or location of this meeting changes, an announcement of the change, along with the new time, date, and/or place of the meeting will be posted on the Commission’s website at https://www.sec.gov.

The General Counsel of the Commission, or his designee, has certified that, in his opinion, one or more of the exemptions set forth in 5 U.S.C. 552(b)(3), (5), (6), (7), (8), (9)(B) and (10) and 17 CFR 200.402(a)(3), (a)(5), (a)(6), (a)(7), (a)(8), (a)(9)(ii) and (a)(10), permit consideration of the scheduled matters at the closed meeting.

The subject matter of the closed meeting will consist of the following topics:

- Institution and settlement of injunctive actions;
- Institution and settlement of administrative proceedings;
- Resolution of litigation claims; and
- Other matters relating to examinations and enforcement proceedings.

At times, changes in Commission priorities require alterations in the scheduling of meeting agenda items that may consist of adjudicatory, examination, litigation, or regulatory matters.

CONTACT PERSON FOR MORE INFORMATION:
For further information, please contact Vanessa A. Countryman from the Office of the Secretary at (202) 551–5400.

Dated: May 6, 2021.

Vanessa A. Countryman,
Secretary.

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–91759; File No. SR-CboeEDGA–2021–010]

Self-Regulatory Organizations; Cboe EDGA Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Cboe EDGA Exchange, Inc. (“Exchange” or “EDGA”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe EDGA Exchange, Inc. (the “Exchange” or “Cboe EDGA”) proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/equities/regulation/rule_filings/edga/), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the Securities and Exchange Commission (“SEC” or “Commission”) a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the CAT Compliance Rule. See Rules 4.4 through 4.17 of the Exchange’s Rulebook. The Exchange and each of its affiliated exchanges (Cboe BYX Exchange, Inc., Cboe BZX Exchange, Inc., Cboe C2 Exchange, Inc., Cboe Exchange, Inc., and Cboe EDGX Exchange, Inc.) are filing to adopt the CAT fee schedule.

2. Unless otherwise specified, capitalized terms used in this rule filing are defined as set forth in the CAT Compliance Rule. See Rules 4.5 through 4.17 of the Exchange’s Rulebook. The Exchange and each of its affiliated exchanges (Cboe BYX Exchange, Inc., Cboe BZX Exchange, Inc., Cboe C2 Exchange, Inc., Cboe Exchange, Inc., and Cboe EDGX Exchange, Inc.) are filing to adopt the CAT fee schedule.

3 Section 11.1(b) of the CAT NMS Plan.

Operating Committee approves.6 Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”).7 The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).8

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be reallocated among all Industry Members (including any Industry Members subject to the Minimum Industry Member CAT Fee and any Industry Members subject to the Maximum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee.9 As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” 10 The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.11

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.12

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.14 Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member

---

6 Section 11.1(b) of the CAT NMS Plan.
7 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 4, 56–57.
8 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 4.
9 Proposed CAT Fee Plan Amendment at 10–11.
10 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.
14 See Proposed CAT Fee Plan Amendment at 12–16. Note that, in the funding model set forth in Article XII of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Exchange Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.
The Reportable Events may vary over Member based on message traffic.\textsuperscript{16} As discussed in more detail below, the Industry Member Allocation of 75\% of the Total CAT Costs includes in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75\% of the Total CAT Costs.\textsuperscript{15}

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic.\textsuperscript{16} Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment,\textsuperscript{17} message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time.\textsuperscript{18} The Reportable Events may vary over time if the IM Reporting Tech Specs are amended.\textsuperscript{19} However, Reportable Events

\textsuperscript{15} For additional discussions regarding the 75\%–25\% allocation, see Proposed CAT Fee Plan Amendment at 16–20.

\textsuperscript{16} For additional discussions regarding the use of message traffic for calculating Industry Member CAT fees, see Proposed CAT Fee Plan Amendment at 21–22.

\textsuperscript{17} See Proposed CAT Fee Plan Amendment at 26–27.

\textsuperscript{18} The CAT Reporting Technical Specifications for Industry Members are available at www.catnmsplan.com.

\textsuperscript{19} Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2\textsuperscript{d} CAT Reporting is scheduled for December 2021, and Small Industry Non-OATS Reporters are not required to report until December 2021. In addition, certain Reportable Events, such as simple options manual orders and OTC link messages, are not required to be reported until later in the Phased Reporting. For a detailed description of such Reportable Events, see CAT Reporting Technical Specifications for Industry Members (available at www.catnmsplan.com).

\textsuperscript{20} The CAT Reporting Customer and Account Technical Specifications for Industry Members are available at www.catnmsplan.com.

\textsuperscript{21} See Proposed CAT Fee Plan Amendment at 27–30.

\textsuperscript{22} Section 1.1 of the CAT NMS Plan. Rule 4.5(ee) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.”

\textsuperscript{23} See Proposed CAT Fee Plan Amendment at 30–32.

\textsuperscript{24} Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Options Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountFolderType. The CAT Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 31.

\textsuperscript{25} Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 32.

\textsuperscript{26} www.catnmsplan.com. For the Industry Member CAT Reporting timeline, see, e.g., FINRA Rule 6105(c). CAT costs will be allocated based on the Reportable Events reported to the CAT in any relevant quarter, regardless of whether all Industry Members are reporting to the CAT or all Reportable Events are required to be reported to the CAT for a relevant quarter. See Proposed CAT Fee Plan Amendment at 27.

\textsuperscript{27} The CAT Reporting Customer and Account Technical Specifications for Industry Members are available at www.catnmsplan.com.

\textsuperscript{28} Section 1.1 of the CAT NMS Plan. Rule 4.5(ee) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.”
would be calculated in the same manner for NMS Stocks for the fourth quarter of 2020 was 4.77%.

As an example, the trade-to-quote ratio number of trade busts) by the total trade count (that is, the total number of trade traffic) would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s traffic to prevent a potentially disproportionate effect on market making in NMS Stocks. Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed.

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Equity Market Maker discount, the Exchanges proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”). In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.

For additional discussions regarding the Maximum Industry Member CAT Fee, See Proposed CAT Fee Plan Amendment at 33–35.

28 See Proposed CAT Fee Plan Amendment at 32–33.

27 Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker discount associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 32.

29 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Industry Market Makers. See Proposed CAT Fee Plan Amendment at 33.

30 For additional discussions regarding the Minimum Industry Member CAT Fee, See Proposed CAT Fee Plan Amendment at 33–35.

31 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.
If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage ("Maximum Industry Member CAT Fee Re-Allocation").

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.\

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”). Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones, certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs

\[34\] See Proposed CAT Fee Plan Amendment at 55–60.

\[35\] See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).38

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress Report, Initial Industry Member Core Equity and Option Reporting was completed on schedule by July 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants’ Quarterly Progress Report, Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020. Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee.39 The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed

---

38 See Proposed CAT Fee Plan Amendment at 60–63.
paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Minimum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee “subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT during the period from January 1, 2022 through December 30, 2022 as set forth in the 2021 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Minimum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members will be required to commence paying the Period 4 CAT Fee in the second quarter of 2023, based on data from the first quarter of 2023.

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that “each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Minimum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin

---

39 The Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

40 See Proposed CAT Fee Plan Amendment at 63–65.
on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee.

Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023.

To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “[e]ach Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company.

Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

41 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.
42 See Proposed CAT Fee Plan Amendment at 65–68.
43 To the extent that any two or more of the four categories of Industry Member CAT Fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 66.
44 CAT NMS Plan Approval Order at 84792.
(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment.45 Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, ‘‘CAT Fees’’) for each payment period.’’ Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (A) the Prime Rate plus 300 basis points, or (B) the maximum rate permitted by applicable law.46

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act, which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act, because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act, which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement

45 See Proposed CAT Fee Plan Amendment at 68–69.
46 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 69.
50 See Proposed CAT Fee Plan Amendment at 68–69.
51 See Proposed CAT Fee Plan Amendment at 70–79.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%-25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers.”53 as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members. As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act54 requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters.55 The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A) of the Act56 and paragraph (f) of Rule 19b–457 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission will institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.
Electronic Comments

- Use the Commission’s internet comment form (https://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR-ChoeEDGA–2021–010 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–ChoeEDGA–2021–010. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–ChoeEDGA–2021–010 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority. 58

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09766 Filed 5–7–21; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Cboe Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a Fee Schedule to Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Cboe Exchange, Inc. (“Exchange” or “Cboe Options”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe Exchange, Inc. (the “Exchange” or “Cboe Options”) proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://www.cboe.com/AboutCBOE/CBOELegalRegulatoryHome.aspx), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the Securities and Exchange Commission (“SEC” or “Commission”) a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant and Industry Members related to the CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves.6 Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Trading Permit Holders under the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”).7 The CAT costs would be assigned to each relevant quarter based on the total CAT costs associated with the quarter.

7 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 4, 56–57.

3 Unless otherwise specified, capitalized terms used in this rule filing are defined as set forth in the CAT Compliance Rule. See Chapter 7, Section B of the Exchange’s Rulebook, The Exchange and each of its affiliated exchanges (Cboe BYX Exchange, Inc., Cboe BZX Exchange, Inc., Cboe C2 Exchange, Inc., Cboe EDGA Exchange, Inc., and Cboe EDGX Exchange, Inc.) are filing to adopt the CAT fee schedule.
Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613(c)(1) of the CAT NMS Plan, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.” The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.

As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic. Each Industry Member CAT Fee would be calculated based on the percentage of the total Industry Member’s message traffic of all Industry Members.

For additional discussions regarding the use of message traffic for calculating Industry Member CAT fees, see Proposed CAT Fee Plan Amendment at 21–22.

For additional discussions regarding the 75%/25% allocation, see Proposed CAT Fee Plan Amendment at 16–20.


14 See Proposed CAT Fee Plan Amendment at 12–16. Note that, in the funding model set forth in Article XI of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Execution Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.

15 For additional discussions regarding the 75%/25% allocation, see Proposed CAT Fee Plan Amendment at 21–22.
all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment,17 message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time.18 Reportable Events may vary over time if the IM Reporting Tech Specs are amended.19 However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality.21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker 22 would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic.23 Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; 24 and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period 25 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member CAT fees.26

17 See Proposed CAT Fee Plan Amendment at 26–27.
19 Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2d CAT Reporting is scheduled for December 2021, and Small Industry Non-OATS Reporters are not required to report until December 2021. In addition, certain Reportable Events, such as simple options manual orders and OTC link messages, are not required to be reported until later in the Phased Reporting. For a detailed description of such Reportable Events, see CAT Reporting Technical Specifications for Industry Members (available at www.catnmsplan.com). For the Industry Member CAT reporting timeline, see, e.g., FINRA Rule 6895(c). CAT costs will be allocated based on Industry Members’ message traffic reported to the CAT in any relevant quarter, regardless of whether all Industry Members are reporting to the CAT or all Reportable Events are required to be reported to the CAT for a relevant quarter. See Proposed CAT Fee Plan Amendment at 27.
21 See Proposed CAT Fee Plan Amendment at 27–30.
22 Section 1.1 of the CAT NMS Plan. Rule 7.20(ee) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.”
23 See Proposed CAT Fee Plan Amendment at 30–32.
24 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Industry Member with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 31.
25 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 32.
Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks. Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed.

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the NMS Stock trade-to-quote ratio.

To implement the Equity Market Maker discount, the Exchange proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. All Industry Members required to report to the CAT, including those that havenot yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (h)(2) of the fee schedule would state that “If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.”

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “the Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

30 See Proposed CAT Fee Plan Amendment at 32–33.
31 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.
32 For additional discussions regarding the Maximum Industry Member CAT Fee, See Proposed CAT Fee Plan Amendment at 35–37.
CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.33

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “the Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “the Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”).34 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Release.35

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress

33 See Proposed CAT Fee Plan Amendment at 50–51.
34 See Proposed CAT Fee Plan Amendment at 55–60.
35 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants’ Quarterly Progress Report, Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>$36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee. The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 ("Period 3 CAT Costs") will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated

---

38 See Proposed CAT Fee Plan Amendment at 60–63.
by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021, the date of Full Availability and Regulatory Utilization of Transactional Database Functionality. As discussed above, the Period 3 CAT Costs to be recovered via the Period 3 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2020 through December 31, 2021. The collection of the full amount of the Period 3 CAT Fee will depend upon achievement of Full Availability and Regulatory Utilization of Transactional Database Functionality by December 31, 2021; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee.

The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that “each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 31, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include...
fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023.

To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “[e]ach Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Builder message traffic and Equity Market Builder message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits.

41 See Proposed CAT Fee Plan Amendment at 65–68.
42 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 66.
43 CAT NMS Plan Approval Order at 84792.
the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from third quarter of the relevant year.</td>
<td>4th quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from fourth quarter of the relevant year.</td>
<td>1st quarter of year following the relevant year.</td>
</tr>
</tbody>
</table>

(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment. Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (A) the Prime Rate plus 300 basis points, or (B) the maximum rate permitted by applicable law.46

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act,47 which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act,48 because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act,49 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file

46 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 69.


50 See Proposed CAT Fee Plan Amendment at 68–69.

51 See Proposed CAT Fee Plan Amendment at 70–79.

45 See Proposed CAT Fee Plan Amendment at 70.
members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,” 52 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%-25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters.55 The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee to address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A) of the Act 56 and paragraph (f) of Rule 19b–4 57 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission will institute proceedings to determine whether the proposed rule change should be approved or disapproved.

52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.
55 See Proposed CAT Fee Plan Amendment at 78–79.
IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR-CBOE–2021–030 on the subject line.

Paper Comments
- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–CBOE–2021–030. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–CBOE–2021–030 and should be submitted on or before June 1, 2021.

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations: Investors Exchange LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Allow Discretionary Limit Orders To Be Reserve Orders

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 23, 2021, the Investors Exchange LLC (“IEX” or the “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Pursuant to the provisions of Section 19(b)(1) under the Act,3 and Rule 19b–4 thereunder,4 IEX is filing with the Commission a proposed rule change to allow Discretionary Limit orders to be reserve orders. The Exchange has designated this rule change as “non-controversial” under Section 19(b)(3)(A) of the Act5 and provided the Commission with the notice required by Rule 19b–4(f)(6) thereunder.6

The text of the proposed rule change is available at the Exchange’s website at www.iextrading.com, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the self-regulatory organization included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The self-regulatory organization has prepared summaries, set forth in Sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The purpose of this proposed rule filing is to amend IEX Rule 11.190 to allow a Discretionary Limit7 (“D-Limit”) order to be a reserve order.8 As proposed, a D-Limit reserve order will essentially function like any other reserve order, i.e., on entry, it will be processed as a single order, and if not fully executed, the D-Limit reserve order will post to the Order Book9 and effectively be treated by the System10 as two discrete orders: The displayed portion of the order will be a displayed D-Limit order, and the reserve portion will be a non-displayed D-Limit order. However, consistent with existing D-Limit functionality, there are two differences between D-Limit reserve orders and other reserve orders: (1) Both the displayed and non-displayed portions of a D-Limit reserve order may be subject to an automatic price adjustment during periods of quote instability; (2) D-Limit reserve orders can only execute during the Regular Market Session.11 IEX also proposes to make some conforming edits to the subparagraph headers in the D-Limit order definition to align the rule text with other order definition statements.

Background

Since the approval of its exchange application, IEX, like other equities exchanges,12 has offered Members13 a “reserve” order type, which allows

8 IEX Rule 11.190(nn).
9 IEX Rule 11.190(p).
10 IEX Rule 11.160(p).
11 See IEX Rule 1.160(nn).
12 See, e.g., Cboe BZX Exchange, Inc. Rule 11.9(c)(1); MEMX, LLC Rule 11.8(b)(4); The Nasdaq Stock Market LLC Rule 4703(h); and New York Stock Exchange LLC Rule 7.31(d)(1).
13 See IEX Rule 1.160(e).

See IEX Rule 11.190(b)(7).
See IEX Rule 11.190(b)(2).
See IEX Rule 1.160(p).
See IEX Rule 1.160(nn).
See IEX Rule 1.160(gg).
See IEX Rule 1.160(e).

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.58

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09767 Filed 5–7–21; 8:45 am]
Members to submit a partially displayed limit order, so that a portion of the order is displayed (“display quantity”) and a portion of the order is non-displayed (“reserve quantity”). As set forth in IEX Rule 11.190(b)(2), when Members submit a reserve order, they must specify the display quantity (which must be equal to or greater than one round lot). Upon entry, the System attempts to execute a reserve order as a single order of its full, unexecuted size. If an incoming reserve order is not fully executed, it posts to the Order Book where it is effectively treated as two discrete orders: the display quantity (“displayed portion”) and the reserve quantity (“non-displayed portion”).

For the purposes of pricing reserve orders on the Order Book, displayed portions are treated as displayed orders and non-displayed portions are treated as non-displayed orders. As described in IEX Rule 11.190(h), it is possible for the non-displayed portion to rest at a different price than the displayed portion, because the displayed portion is subject to display-price sliding while the non-displayed portion is subject to the Midpoint Price Constraint. If the displayed portion of the reserve order is decremented such that less than one round lot would be displayed, the displayed portion of the reserve order shall be refreshed for either (i) the original displayed quantity, or (ii) the entire reserve quantity, if the total number of unexecuted shares in the order is smaller than the original Member instructed displayed quantity.

Each time the displayed portion of the order is refreshed from the reserve quantity, that portion is prioritized behind other existing displayed orders; the priority of the non-displayed portion, however, is unchanged by the refresh process.

IEX recently introduced a new type of limit order, the D-Limit order, which is designed to protect liquidity providers from potential adverse selection by latency arbitrage trading strategies in a fair and nondiscriminatory manner. A D-Limit order may be a displayed or non-displayed limit order that upon entry and when posting to the Order Book is priced to be equal to and ranked at the order’s limit price, but will be adjusted to a less-aggressive price during periods of quote instability, as defined in IEX Rule 11.190(g).

Specifically, if the System receives a D-Limit buy (sell) order during a period of quote instability (i.e., the Crumbling Quote Indicator or “CQI” is on), and the D-Limit order has a limit price equal to or higher (lower) than the quote instability determination price level (“CQI Price”), the price of the order will be automatically adjusted by the System to one (1) MPV 16 lower (higher) than the CQI Price (the “effective limit price”). Similarly, when unexecuted shares of a D-Limit buy (sell) order are posted to the Order Book, if a quote instability determination is made and such shares are ranked and displayed (in the case of a displayed order) by the System at a price equal to or higher (lower) than the CQI Price, the price of the order will be automatically adjusted by the System to the effective limit price. A D-Limit order with an effective limit price will not revert to the price at which it was previously ranked and displayed (in the case of a displayed order). Once the price of a D-Limit order that has been posted to the Order Book is automatically adjusted by the System, the order will continue to be ranked and displayed (in the case of a displayed order) at the effective limit price, unless subject to another automatic adjustment, or if the order is subject to the price sliding provisions of IEX Rule 11.190(h).

Otherwise, a D-Limit order operates in the same manner as either a displayed or non-displayed limit order, as applicable.

D-Limit orders currently cannot be a reserve order. However, IEX has received informal feedback from Members indicating that they prefer to use reserve orders to post displayed liquidity and would like to be able to use such functionality for D-Limit orders. Based on this feedback, IEX proposes to enable D-Limit orders to be reserve orders, consistent with how IEX treats any other limit orders.

Proposal

IEX proposes to amend IEX Rules 11.190(b)(2), 11.190(b)(7), and Supplementary Material .01 to allow D-Limit orders to be submitted as a reserve order. D-Limit orders already may be submitted as either displayed or non-displayed orders, and this proposal will allow Members to submit both a displayed and non-displayed D-Limit order as a single reserve order that allows the Member to control how much of the D-Limit order is displayed at any given time.

As proposed, a D-Limit reserve order will essentially function like any other reserve order, i.e., on entry, it will be processed as a single order, and if not fully executed, the D-Limit reserve order will post to the Order Book and effectively be treated by the System as two discrete orders: The displayed portion of the order will be a displayed D-Limit order, and the reserve portion will be a non-displayed D-Limit order. However, consistent with existing D-Limit functionality, there are two differences between D-Limit reserve orders and other reserve orders, as described below.

First, D-Limit reserve orders, like all D-Limit orders, will only be eligible to trade during the Regular Market Session, and a D-Limit reserve order with a Time-in-Force of “DAY” submitted before the closing of the Regular Market Session will be queued by the System until the start of the Regular Market Session. Any D-Limit reserve orders submitted after the closing of the Regular Market Session will be rejected. This functionality differs from other reserve orders, which may be submitted during the Pre-Market Session, the Post Market Session, or the Regular Market Session.

Second, D-Limit reserve orders, as described above, may also be subject to an effective limit price if their price is adjusted by the System during a period of quote instability. Therefore, a D-Limit reserve order resting on the Order Book will function like any other reserve order except that it can never be priced above either its limit price or its effective limit price. Finally, IEX proposes to make conforming changes to IEX Rule 11.190(b)(7) to conform the subparagraph numbering with other order types described in IEX Rule 11.190(a) and (b).

The following is a list of the specific proposed changes to IEX Rule 11.190:

- Modify IEX Rule 11.190(b)(2)(A), which currently says reserve orders must be limit orders to add the clarifying words “including a Discretionary Limit order.”
- Modify IEX Rule 11.190(b)(2)(F), which describes how reserve orders may be submitted during the Regular Market, Pre-Market, and Post-Market sessions, to add the words “with the exception of Discretionary

See IEX Rule 11.190(a)(1).

See IEX Rule 11.190(b)(2).

See IEX Rule 11.190(h)(1).

See IEX Rule 11.190(h)(2).


See IEX Rule 11.190(b)(7) and 11.190(g).


See IEX Rule 11.190(b)(7).

See IEX Rule 11.190(b)(7)(e)(H).

See IEX Rule 11.190(b)(2)(A).

See IEX Rule 11.190(b)(7)E(e)

See Id.

See IEX Rule 1.160(a).

See IEX Rule 1.160(a).

See IEX Rule 11.190(b)(2)(F).
Limit reserve orders, which may only be submitted as set forth in IEX Rule 11.190(b)(7)(E)(v).”

- Modify the main paragraph of IEX Rule 11.190(b)(7) to specify that D-Limit orders may also be “partially displayed” (i.e., reserve orders).
- Remove IEX Rule 11.190(b)(7)(e)(II), which states that D-Limit orders may not be reserve orders.
- Re-letter and re-number the subparagraphs of the D-Limit order definition to conform to the other order types in the rule. Specifically:
  - Re-letter IEX Rule 11.190(b)(7) subparagraphs (a)–(e) to now be subparagraphs (A)–(E)
  - Re-number the subparagraphs under IEX Rule 11.190(b)(7)(E) from (A)–(J) to (i)–(ix).
- Modify IEX Rule 11.190(b)(7)(C) to specify that the displayed portions of D-Limit reserve orders, like displayed D-Limit orders, are not eligible to be invited by the System to Recheck as described in IEX Rule 11.230(a)(4)(D).
- Modify Supplementary Material .01 to IEX Rule 11.190(b) (“Reserve Orders”) to add the following language to the end of the first paragraph:
  - “D-Limit reserve orders function like any other reserve order, except they can only trade during the Regular Market Session, and if a D-Limit reserve order has been subject to an automatic price adjustment pursuant to paragraphs (b)(7)(C) and (D) of this IEX Rule, both the displayed and non-displayed portions of the D-Limit reserve order will continue to be ranked and displayed (in the case of the displayed portion) at the adjusted price. The adjusted price functions as an effective limit price for both the displayed and non-displayed portions of the D-Limit reserve order if one or both portions of the D-Limit reserve order are subsequently price adjusted pursuant to the Price Sliding provisions of paragraph (h) of this IEX Rule.”

Implementation

This proposed rule change will be immediately effective upon filing. The Exchange will provide at least ten (10) days’ notice to Members and market participants of the implementation timeline.

2. Statutory Basis

The Exchange believes that the proposed rule change is consistent with Section 6(b) of the Act,33 in general, and furthers the objectives of Section 6(b)(5),34 in particular, in that it is designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, to foster cooperation and coordination with persons engaged in facilitating transactions in securities, and to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, to protect investors and the public interest.

Specifically, the Exchange believes that the proposed rule change is consistent with the protection of investors and the public interest because it is designed to provide more flexibility and opportunities for Members to add both displayed and non-displayed liquidity to the Exchange. As noted in the Purpose section, the proposed rule change is responsive to informal feedback from Members indicating that they prefer to use reserve orders to post displayed liquidity and would like to be able to use such functionality for D-Limit orders. Thus, IEX believes that the proposed rule change will attract additional liquidity to the Exchange and, to the extent it is successful in doing so, will benefit all market participants, thereby supporting the purposes of the Act to remove impediments to and perfect the mechanism of a free and open market and a national market system, and in general, to protect investors and the public interest.

Moreover, the proposed rule change will merely combine the attributes of two existing order types—D-Limit orders and reserve orders—to expand the functionality available to Members. Consequently, the Exchange does not believe that the proposed rule change raises any novel issues not already considered by the Commission. Furthermore, IEX believes it is consistent with the purposes of the Act for D-Limit reserve orders to function like other reserve orders except for when they can be submitted and how they behave if their price was adjusted during a period of quote instability, because these two differences are essential aspects of D-Limit orders.

Similarly, IEX believes that updating the reserve order description in the Supplementary Material to IEX Rule 11.190(b) is consistent with the protection of investors and the public interest by providing clarity to all market participants about how D-Limit reserve orders function, including the two ways in which their functionality differs from that of other reserve orders.

Thus, these proposed changes support the purposes of the Act to remove impediments to and perfect the mechanism of a free and open market and a national market system, and in general, to protect investors and the public interest.

In addition, as noted in the Purpose section, a D-Limit reserve order is a combination of two order types the Commission has already approved—reserve orders—which are a common order type on equity exchanges—and D-Limit orders.37 Thus, IEX does not believe that the proposed changes raise any new or novel material issues that have not already been considered by the Commission in connection with existing order types offered by IEX and other national securities exchanges.

Finally, the Exchange believes that the proposed non-substantive conforming changes to IEX Rule 11.190(b)(7) are consistent with the protection of investors and the public interest because they will have no impact on the functionality of D-Limit orders, but rather simply provide consistency and clarity in IEX’s “Orders and Modifiers” rule, thereby reducing the potential for confusion of any market participants.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the proposed rule change will impose any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act.

The Exchange does not believe that the proposed rule change will impose any burden on intermarket competition that is not necessary or appropriate in furtherance of the purposes of the Act. To the contrary, the proposal is designed to enhance IEX’s competitiveness with other markets by further enhancing IEX’s reserve order and D-Limit order types. As discussed in the Purpose section, the proposal is designed to incentivize the entry of additional liquidity providing orders on IEX by offering Members the flexibility of using a reserve order to control what portion of their D-Limit orders are displayed at any time. Further, by enabling the entry of D-Limit orders that can be partially displayed, IEX believes this proposal will enhance opportunities for price discovery and increase the overall displayed (and non-displayed) liquidity profile on the Exchange.

See supra note 12.

See supra note 18.
Exchange, to the benefit of all market participants.

The Exchange also does not believe that the proposed rule change will impose any burden on intramarket competition that is not necessary or appropriate in furtherance of the purposes of the Act. All Members would be eligible to use a D-Limit reserve order, and all Members would be eligible to execute against any portion of a D-Limit reserve order. Moreover, the proposal would provide potential benefits to all Members to the extent that there is more liquidity available on IEX as a result of increased use of D-Limit orders attributable to the ability to enter such orders as reserve orders.

Further, the proposed conforms to IEX Rule 11.190(b)(7) are not designed to address any competitive issue, but rather to provide additional clarity in IEX’s rulebook.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

Written comments were neither solicited nor received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The Exchange has designated this rule filing as non-controversial under Section 19(b)(3)(A) and Rule 19b–4(f)(6) thereunder. Because the proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A) of the Act and Rule 19b–4(f)(6) thereunder.

The Exchange believes that the proposed rule change meets the criteria of subparagraph (f)(6) of Rule 19b–4 because it would not significantly affect the protection of investors or the public interest. Rather, the proposed rule change neither significantly affects the protection of investors or the public interest, nor does it impose any burden on competition because it would merely combine the attributes of two existing order types—D-Limit orders and reserve orders—to expand the functionality available to Members, as discussed in the Purpose section, and does not raise any new or novel material issues that have not already been considered by the Commission in connection with existing order types offered by IEX. Accordingly, IEX has designated this rule filing as non-controversial under Section 19(b)(3)(A) of the Act and paragraph (f)(6) of Rule 19b–4 thereunder.

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings under Section 19(b)(2)(B) of the Act to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–IEX–2021–08 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090. All submissions should refer to File Number SR–IEX–2021–08. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Nasdaq GEMX, LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”), and Rule 19b–4 thereunder, notice is hereby given that on April 21, 2021, Nasdaq GEMX, LLC (“GEMX” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III, below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market

System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).

The text of the proposed rule change is available on the Exchange’s website at https://listingcenter.nasdaq.com/rulebook/gemx/rules, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants. The Operating Committee has filed with the SEC a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”). The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves. Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are GEMX members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”). The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan contains the following provisions that would be implemented by the Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees for Industry Members contributing to the funding of the CAT, and (ii) Establishing fees for Industry Members that shall be implemented by the Participants.” The Commission approved the CAT NMS Plan on the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge

5 Unless otherwise specified, capitalized terms used in this rule filing are defined as set forth in Rule General 7 (Consolidated Audit Trail Compliance) (GEMX General 7 incorporates The Nasdaq Stock Market LLC General 7 by reference).

6 Section 11.1(b) of the CAT NMS Plan.

7 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 21051 [sic], 21074 [sic].

8 Each Industry Member and Participant CAT Fee Plan Amendment at 21051 [sic], 21074 [sic].

9 Proposed CAT Fee Plan Amendment at 21054–55.

10 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.
members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.11

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.12

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets.” 13 thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.14 Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).15 As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs. (C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic.16 Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment,17 message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time.18 The Reportable Events may vary over time if the IM Reporting Tech Specs are amended.19 However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality.21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker22 would have a

Reportable Events reported to the CAT in any relevant quarter, regardless of whether all Industry Members are reporting to the CAT or all Reportable Events are required to be reported to the CAT for a relevant quarter. See Proposed CAT Fee Plan Amendment at 21057–58.


Section 1.1 of the CAT NMS Plan; Nasdaq General 7 Section 1(e) defines an “Options Market Maker” as “a broker-dealer registered with an

Continued
discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic.23 Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed;24 and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.017.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period25 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic.29 All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member

23 See Proposed CAT Fee Plan Amendment at 21058.
24 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Options Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.cutanmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.
25 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 21058.
26 See Proposed CAT Fee Plan Amendment at 21058.
27 Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.
28 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.cutanmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.
29 See Proposed CAT Fee Plan Amendment at 21058.
CAT Fee in accordance with their message traffic percentage.31

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (h)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee.32 The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.33

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”). Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones, certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020—July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from June 22, 2020—July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones.

31 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.

32 For additional discussions regarding the Maximum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21068–59 [sic].

33 See Proposed CAT Fee Plan Amendment at 21063.

34 See Proposed CAT Fee Plan Amendment at 21064–65.

35 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
Accountability Milestones (which covered the period from August 1, 2020—December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to the market making discounts and the maximum fee). The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4th of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants’ Quarterly Progress Report, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020.

Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “subject to the requirements of Section 11.6 of the CAT NMS Plan.” The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee. The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by ROTFLth of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter.

Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022. The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022 ..</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022.</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ..........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022 ..</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ..........</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022</td>
<td>1st quarter of 2023</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee.
owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members will be required to commence paying the Period 4 CAT Fee in the second quarter of 2023, based on data from the first quarter of 2023.

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that “each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ................................</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023 ..</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ................................</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023.</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ................................</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023.</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ................................</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the

Period 4 CAT Fee and the Quarterly CAT Fee are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 21067–68.

41 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.

42 See Proposed CAT Fee Plan Amendment at 21067–68.

43 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter.

44 The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:
percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023.

To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “[e]ach Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 .......... 1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year</td>
<td></td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 .......... 1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year</td>
<td></td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 .......... 1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from third quarter of the relevant year.</td>
<td>4th quarter of the relevant year</td>
<td></td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 .......... 1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from fourth quarter of the relevant year.</td>
<td>1st quarter of year following the relevant year</td>
<td></td>
</tr>
</tbody>
</table>

(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment. Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law.

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the

See Proposed CAT Fee Plan Amendment at 21068. See Proposed CAT Fee Plan Amendment at 24987 Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Notices 24987

44 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 21068.

46 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 21068.


45 See Proposed CAT Fee Plan Amendment at 21068.
Act, because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.” To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan. The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,” as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers,” as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its GEMX members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

49a CAT NMS Plan Approval Order at 84696.
51 See Proposed CAT Fee Plan Amendment at 21068–70.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters.55 The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act.56 At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) Necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act.

Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR-GEMX–2021–03 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–GEMX–2021–03. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change.

Persons submitting comments are cautioned that we do not read or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–GEMX–2021–03 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.57

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09784 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; National Securities Clearing Corporation; Notice of No Objection To Advance Notice To Amend the Supplemental Liquidity Deposit Requirements

May 4, 2021.

I. Introduction

On March 5, 2021, National Securities Clearing Corporation (“NSCC”) filed with the Securities and Exchange Commission (“Commission”) advance notice SR–NSCC–2021–801 (“Advance Notice”) pursuant to Section 806(e)(1) of Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act, entitled Payment, Clearing and Settlement Supervision Act of 2010 (“Clearing Supervision Act”)7 and Rule 19b–4(n)(1)(ii) under the Securities Exchange Act of 1934 (“Exchange Act”)8 to amend its Supplemental Liquidity Deposit Requirements.9 The Advance Notice was published for comment in the Federal Register on March 24, 2021,10 and the Commission has received comments in support of the changes proposed in the Advance Notice.11 The Commission is hereby providing notice of no objection to the Advance Notice.

4 See Notice of Filing infra note 5, at 86 FR 15750.
II. The Advance Notice

A. Background

As a central counterparty ("CCP"), NSCC occupies an important role in the securities settlement system by interposing itself between counterparties to financial transactions, becoming the buyer to each seller and seller to each buyer to ensure the performance of the contract, thereby reducing the risk faced by its Members and contributing to global financial stability. NSCC’s liquidity risk management plays an integral part in NSCC’s ability to perform its role as a CCP. If a Member defaults, NSCC, as a CCP, would need to complete settlement of guaranteed transactions on the failing Member’s behalf from the date of default through the remainder of the settlement cycle (currently two days for securities that settle on a regular way basis in the U.S. markets). To do so, and to meet its related regulatory requirements, NSCC seeks to maintain sufficient liquid resources in order to meet the potential funding required to settle outstanding transactions of a defaulting Member in a timely manner, as well as to hold qualifying liquid resources sufficient to meet its minimum liquidity resource requirement in each relevant currency for which it has payment obligations owed to its Members.

NSCC has a number of default liquidity resources that it considers to be qualifying liquid resources for the purposes of Rule 17A--22(a)(1). These resources include: (1) Cash deposits to the NSCC Clearing Fund; (2) the proceeds of the issuance and private placement of (a) short-term, unsecured notes in the form of commercial paper and extendable notes ("Commercial Paper Program"), and (b) term debt ("Term Debt Issuance"); (3) cash that would be obtained by drawing on NSCC’s committed 364-day credit facility with a consortium of banks ("Line of Credit"); and (4) supplemental liquidity deposits, collected pursuant to NSCC Rule 4(A), as discussed further below.

B. Current Rules relating to Supplemental Liquidity Deposits

Currently, NSCC only collects supplemental liquidity deposits during monthly options expiry periods in order to cover the heightened liquidity exposure resulting from increased trading activity around options expiration. NSCC only collects supplemental liquidity deposits from its 30 largest Members or group of affiliated Members (hereinafter, "Providers"). NSCC calculates each Provider’s supplemental liquidity obligation for an upcoming options expiry period using an estimate based on NSCC’s highest liquidity need and the Provider’s settlement activity during the prior 24-months. Providers, in turn, must fund their supplemental liquidity obligations two business days prior to the start of the options expiry period, which NSCC will return seven business days after the end of that period.

In order to ensure NSCC maintains adequate liquidity resources throughout the options expiry period, providers may voluntarily prefund additional supplemental liquidity deposits at the start of the period, if it anticipates increases in its trading activity, compared to its historical activity, will create a liquidity shortfall at NSCC. In the event a Provider fails to provide adequate voluntary prefunded deposits, NSCC may require the Provider to fund additional supplemental liquidity deposits if NSCC experiences a resulting liquidity shortfall, which NSCC may hold for up to 90 days. The 90-day lock-up incentivizes Providers to voluntarily prefund their supplemental liquidity deposits in order to ensure NSCC maintains adequate liquidity resources throughout the options expiry period.

C. Proposed Changes to the Rules Relating to Supplemental Liquidity Deposits

As discussed above, NSCC may only collect supplemental liquidity deposits during monthly options expiry periods under its current Rules. However, NSCC can face sudden liquidity shortfalls on any business day, not just those business days that fall within monthly options expiry periods, particularly during volatile market conditions unrelated to options expiration. To address this issue, NSCC proposes to change the frequency at which it may collect supplemental liquidity deposits to each business day, based on a daily calculation. This proposed approach to collecting supplemental liquidity deposits should allow NSCC to respond quickly to any sudden liquidity shortfalls arising from a Provider’s activity, regardless of when those shortfalls occur.

NSCC also proposes an alternative pro rata daily calculation in the rare event its regular daily calculation would inadvertently result in collecting supplemental liquidity deposits from multiple Providers that, taken together, would significantly exceed NSCC’s liquidity needs on that day. Additionally, NSCC proposes the ability to collect supplemental liquidity deposits on an intraday basis in certain instances where sudden intraday increases in liquidity risk justify shortening the amount of time NSCC is exposed to that risk, including a mandatory intraday collection in connection with monthly options expiry periods.

---


\(^{11}\) See Rule 4(A) (Supplemental Liquidity Deposits) of the Rules, supra note 8.


\(^{13}\) See Rule 4(A), supra note 8. NSCC defines the duration of the options expiry periods in its Rules, which typically runs from the third Friday of the month to the following Tuesday. See id.

\(^{14}\) See also Notice of Filing, supra note 5, at 15751.

\(^{15}\) See Section 2 of Rule 4(A), supra note 8.
1. Proposed Daily Calculation of Supplemental Liquidity Deposits

A Provider will be obligated to provide a supplemental liquidity deposit on each business day in which its settlement activity causes a liquidity shortfall. NSCC will provide a notice to each Provider of the amount of its supplemental liquidity deposit, which the Provider will be required to fund within one hour of such notice. NSCC proposes to return supplemental liquidity deposits on the next business day.

NSCC states that, under its proposed calculation, it will no longer need to estimate its liquidity need for a Provider’s expected settlement activity based on the Provider’s historical settlement activity. Instead, each Provider’s deposit will be calculated based on NSCC’s actual liquidity need, which the Provider will be required to calculate daily and based on the Provider’s daily settlement activity in the event the Provider defaulted on that day, which NSCC believes will provide both NSCC and Providers with a more reliable measure of the liquidity risks posed to NSCC.

NSCC provided the Commission with the results of an impact study comparing the proposal against the observed regulatory liquidity needs and NSCC’s qualifying liquid resources available during the period from 2016 through 2020. The study assessed both pro-forma and hypothesized impacts of the proposal under various liquidity scenarios. The study also analyzed historical trends including the average composition and rankings of the top 30 Providers at NSCC during the 2016 to 2020 period. Based on the pro-forma/hypothetical impact as well analysis of the top Providers, the study’s results generally indicate that the proposal would continue to allow NSCC to meet its regulatory liquidity obligations, and the largest Members would continue to be the ones affected by supplemental liquidity obligations.

2. Proposed Pro Rata Calculation of Supplemental Liquidity Deposits

As a potential alternative to the calculation described above, NSCC proposes a discretionary pro rata calculation that could apply in the event two or more Providers each would be obligated to provide a supplemental liquidity deposit of more than $2 billion on a business day pursuant to the calculation described above. Under the proposed alternative, NSCC will have the option to allocate, on a pro rata basis, its largest liquidity need on a business day to all Providers that are required to make a supplemental liquidity deposit on that day, thereby reducing all such Providers’ obligations to NSCC on that day. NSCC’s determination will be based on the market conditions at that time. For example, NSCC may determine that, in certain market conditions, this alternative approach would be appropriate to alleviate liquidity pressures on all Providers required to make a supplemental liquidity deposit on that day. NSCC states this alternative would allow NSCC to use this pro rata calculation to sufficiently cover its liquidity exposure on that day, without requiring that all Providers fund the total amount of its calculated supplemental liquidity deposit on that day.

3. Proposed Intraday Supplemental Liquidity Calls

NSCC also proposes to establish intraday supplemental liquidity calls, which are intended to allow NSCC to calculate and collect additional supplemental liquidity deposits on an intraday basis if a Provider’s increased daily activity levels or projected settlement activity causes a NSCC liquidity shortfall during a given day. NSCC believes the proposed intraday supplemental liquidity calls will help to mitigate increased liquidity exposures presented to NSCC on an intraday basis in specified circumstances, as discussed further below.

i. Proposed Mandatory Intraday Supplemental Liquidity Call

First, NSCC proposes to establish a mandatory monthly intraday supplemental liquidity call that is calculated and collected, when applicable, on the first business day (typically a Friday) of an options expiry period. A Provider’s mandatory intraday supplemental liquidity call will be the difference between, on the one hand, NSCC’s qualifying liquid resources and, on the other hand, NSCC’s daily liquidity need based on the Provider’s settlement activity at the start of the business day, recalculated to account for both the Provider’s actual settlement activity submitted to NSCC over the course of the day, and the Provider’s projected settlement activity in stock options expected to be submitted to NSCC. Because NSCC’s recalculated daily liquidity need will not factor in late day trades or other off-setting settlement activity, NSCC proposes to adjust its re-calculated daily liquidity need using an estimated supplemental liquidity deposit.

24 Under the proposal, Providers will continue to be the 30 largest Members or group of affiliated Members, but NSCC proposes to simplify how it determines the 30 Providers in order to provide greater transparency and predictability in its determination. The 30 Providers will be determined daily and will be based on the Provider’s settlement activity during the prior 24-months. NSCC’s determination will no longer require a calculation of liquidity exposures the Providers presented to NSCC based on NSCC’s qualifying liquid resources throughout 24 month lookback period. NSCC will continue to take into account to each Member daily information on NSCC’s liquidity need based on that Member’s settlement activity on the previous business day.

25 A liquidity shortfall will arise if NSCC’s daily liquidity need exceeds its qualifying liquid resources, assuming stressed market conditions. NSCC will continue to apply stress scenarios in determining its total qualifying liquid resources in order to anticipate market conditions that could cause those resources to be unavailable on that day. Because the daily calculation will be done at the start of each business day, it will be based on the qualifying liquid resources available to NSCC at the end of the prior business day.

26 NSCC’s proposed timing would mirror the current requirement that is applied to its Members’ Required Fund Deposits (i.e., margin), which is also calculated and collected daily, and must be funded within one hour of demand. NSCC expects to deliver notification of Provider obligations by around 9:30 a.m. ET each business day, with deposits required by no later than 9:30 a.m. ET. See Notice of Filing, supra note 5, at 15753.

27 See Notice of Filing, supra note 5, at 15754. Because NSCC would recalculate supplemental liquidity deposits daily, NSCC will no longer need to hold deposits for the extended periods under its current Rules. See id.

28 See Notice of Filing, supra note 5, at 15753.

29 See id.

30 See Notice of Filing, supra note 5, at 15754.

31 See id. NSCC further states that if its other qualifying liquid resources materially decrease, it would expect to see an increase in both number and amount of supplemental liquidity obligations that Providers would have been required to fund under the proposed rule. See id. at 15758.

32 NSCC represents that it has never had two or more Providers owe more than $2 billion on a calculation date since its adoption of the supplemental liquidity deposit Rules in 2013. Therefore, NSCC believes this alternative calculation would only be available in very limited circumstances. See Notice of Filing, supra note 5, at 15754.

33 See Notice of Filing, supra note 5, at 15754.

34 See Notice of Filing, supra note 5, at 15754.

35 NSCC will retain how it defines the duration of the options expiry periods in its Rules. See supra note 19.

36 Each business day, NSCC receives information regarding projected settlement activity from The Options Clearing Corporation (‘‘OCC’’) pursuant to a Stock and Futures Settlement Agreement. That agreement provides for the clearance and settlement of exercises and assignments of options on eligible securities or the maturities of eligible stock futures contracts through NSCC. See Securities Exchange Act Release No. 81260 (July 31, 2017), 82 FR 36484 (August 4, 2017) [File Nos. SR–NSCC–2017–803; SR–OCC–2017–7; File Nos. SR–NSCC–2017–804]. In this case, the re-calculation will be based on the data NSCC receives from OCC late Thursday.

37 See Notice of Filing, supra note 5, at 15754. For example, an affiliated Member may be entitled, under the NSCC Rules, to liquidity credits based the trading activity of its affiliates, who are also Members, in order to determine NSCC’s net liquidity exposure from the affiliated family of Members.
netting percentage based on each Provider’s average percentage of netting from its off-setting settlement activity observed over the prior 24 months. NSCC states that the actual settlement activity flowing into NSCC for cash settlement of stocks underlying expiring options is typically lower than the projected settlement activity NSCC receives from OCC on the Thursday before the start of the options expiry period due to late day offsetting trades in stock options on that Friday; therefore, applying this netting percentage should more accurately reflect the actual liquidity exposures that will be presented to NSCC from the Providers.38

ii. Proposed Discretionary Intraday Supplemental Liquidity Call

Second, NSCC proposes to establish a discretionary intraday supplemental liquidity call on any business day other than the first business day during options expiry periods. Under this provision, NSCC will have the discretion to call for additional supplemental liquidity deposits on an intraday basis on any such business day if a Provider’s increased activity levels during that day would cause a liquidity shortfall at NSCC. The amount of a Provider’s intraday supplemental liquidity call, pursuant to NSCC’s discretion, would be the difference between NSCC’s daily liquidity need, recalculated to take into account the increase in the Provider’s settlement activity during the day, and NSCC’s qualifying liquid resources.

NSCC states that it would collect a discretionary intraday call in circumstances where NSCC believes it should accelerate the collection of a Provider’s supplemental liquidity obligation because that Provider’s intraday settlement activity would cause NSCC’s liquidity needs to exceed its liquidity resources.39 For example, NSCC may impose an intraday supplemental liquidity call on a Provider if NSCC determines that Provider is unlikely to meet its projected settlement obligations through the settlement cycle due to rapidly escalating financial stress.40 NSCC will make this determination based on a variety of factors, including NSCC’s assessment of the Provider’s ability to meet its obligations to NSCC (i.e., an assessment of the Provider’s creditworthiness on a particular business day) or estimates of settlement activity that could offset settlement exposures and are not reflected in NSCC’s liquidity estimates.41

III. Discussion and Commission Findings

Although the Clearing Supervision Act does not specify a standard of review for an advance notice, the stated purpose of the Clearing Supervision Act is instructive: To mitigate systemic risk in the financial system and promote financial stability by, among other things, promoting uniform risk management standards for SIFMUs and strengthening the liquidity of SIFMUs.42 Section 805(a)(2) of the Clearing Supervision Act authorizes the Commission to prescribe regulations containing risk management standards for the payment, clearing, and settlement activities of designated clearing entities engaged in designated activities for which the Commission is the supervisory agency.43 Section 805(b) of the Clearing Supervision Act provides the following objectives and principles for the Commission’s risk management standards prescribed under Section 805(a): 44

- To promote robust risk management:
  - to promote safety and soundness;
  - to reduce systemic risks; and
  - to support the stability of the broader financial system.

Section 805(c) provides, in addition, that the Commission’s risk management standards may address such areas as risk management and default policies and procedures, among other areas.45 The Commission has adopted risk management standards under Section 805(a)(2) of the Clearing Supervision Act and Section 17A of the Exchange Act (the “Clearing Agency Rules”).46 The Clearing Agency Rules require, among other things, each covered clearing agency to establish, implement, maintain, and enforce written policies and procedures that are reasonably designed to meet certain minimum requirements for its operations and risk management practices on an ongoing basis.47 As such, it is appropriate for the Commission to review advance notices against the Clearing Agency Rules and the objectives and principles of these risk management standards as described in Section 805(b) of the Clearing Supervision Act. As discussed below, the Commission finds the proposal in the Advance Notice is consistent with the objectives and principles described in Section 805(b) of the Clearing Supervision Act,48 and in the Clearing Agency Rules, in particular Rule 17Ad–22(e)(7)(i) and (ii).49

A. Consistency With Section 805(b) of the Clearing Supervision Act

The Commission finds that the Advance Notice is consistent with the stated objectives and principles of Section 805(b) of the Clearing Supervision Act.50 Specifically, the Commission finds that the changes proposed in the Advance Notice are consistent with promoting robust risk management in the area of liquidity risk, promoting safety and soundness, reducing systemic risks, and supporting the broader financial system.

The Commission finds that the changes proposed in the Advance Notice are consistent with promoting robust risk management, in particular the management of liquidity risk presented to NSCC. As a CCP and a SIFMU, it is imperative that NSCC maintains adequate resources to satisfy liquidity needs arising from its settlement obligations, including in the event of a Member default. As described above in Section II.C.1, NSCC currently may only collect supplemental liquidity deposits during monthly options expiry periods. However, NSCC can also face increased liquidity exposure from a Member’s activity outside of these periods, even if unrelated to options settlement activity. The ability to calculate and collect supplemental liquidity deposits, as applicable, on a daily basis should help NSCC more accurately manage its daily liquidity exposures based on Members’ actual activity, as opposed to only being able to collect additional liquidity resources from Members during monthly options expiry. Moreover, the proposal would allow NSCC to determine the amount of supplemental liquidity deposits based on Members’ actual activity, providing more precise and, potentially, lower charges for Members than provided under the current methodology, which uses estimates based on a look-back period and can, on occasion, result in NSCC collecting more resources than needed to cover its exposure.

38 See Notice of Filing, supra note 5, at 15754.
39 See id.
40 See id.
41 See id.
42 See 12 U.S.C. 5461(b).
44 12 U.S.C. 5464(b).
45 12 U.S.C. 5464(c).
47 Id.
48 See id.
50 17 CFR 240.17Ad–22(e)(7)(i) and (ii).
Additionally, as described above in Section II.C.5, NSCC also proposes to include both mandatory and discretionary intraday supplemental liquidity calls which would allow NSCC to calculate and collect additional supplemental liquidity deposits on an intraday basis if a Provider’s increased activity levels during that day or projected settlement activity causes NSCC’s daily liquidity need to exceed its qualifying liquid resources. The Commission finds that the mandatory monthly intraday supplemental liquidity calls on the first business day of the monthly options expiry periods should help NSCC continue to manage the potential increased liquidity exposures that may arise from options settlement-related activity by allowing it to accelerate the collection of supplemental liquidity deposits on that day, as opposed to waiting for the proposed daily collection that would occur on the morning of the following business day. Moreover, the proposed discretionary intraday supplemental liquidity calls should collect additional supplemental liquidity deposits from Members whose activity outside of the monthly options expiry periods may cause a sudden increase in NSCC’s liquidity needs on an overnight basis. Therefore, because NSCC’s proposal is designed to enable NSCC to better limit its liquidity exposures that could arise in the event of a Member default, the Commission finds the changes proposed in the Advance Notice promote robust risk management, specifically in the area of liquidity risk.

The Commission also finds that the changes proposed in the Advance Notice are consistent with promoting safety and soundness, reducing systemic risks, and promoting the stability of the broader financial system. As described above, NSCC’s proposal to calculate and collect, if applicable, supplemental liquidity deposits on a daily basis could provide NSCC with additional liquidity resources, including on days outside of monthly Options Expiration Activity Periods, in the event of a Member default. Therefore, the changes proposed would promote safety and soundness by enabling NSCC to obtain additional liquid resources to cover a liquidity gap that could arise in the event of a Member default. By covering such a gap, the proposal bolsters NSCC’s ability to meet its settlement obligations in the event of a Member default and its ability to continue to provide CCP services to its Members.

In addition, the proposed changes should reduce the potential pro cyclicality of NSCC’s liquidity demands, which could reduce the potential for unexpected liquidity stress to market participants in certain situations. Because NSCC would now calculate and collect, if applicable, supplemental liquidity deposits on a daily basis, the proposal should reduce the likelihood that NSCC would have to call on its Members to contribute additional liquidity in periods of financial stress, when liquidity may be most costly. Therefore, the Commission finds that by enhancing NSCC’s ability to address losses and liquidity pressures that otherwise might cause financial distress to NSCC or its Members, the Advance Notice promotes safety and soundness.

Maintaining adequate liquidity resources to help meet settlement obligations in the event of a Member default also enhances NSCC’s ability to manage systemic risk and to support the broader financial system. NSCC’s ability to obtain additional liquid resources for use in the event of a Member default should reduce the risk of loss contagion (i.e., the risk of losses arising at other NSCC Members if NSCC is unable to deliver cash or securities on the defaulting Member’s behalf). Reducing the risk of loss contagion would reduce the potential transmission of financial shocks from defaulting Members to non-defaulting Members, thereby enhancing the ability of NSCC and its Members to continue to provide stability and safety to the financial markets that they serve. Additionally, establishing an optional alternative pro rata calculation of supplemental liquidity deposits could help NSCC alleviate any unintended but significant liquidity constraints on its Members, while still enabling NSCC to meet its regulatory requirements with respect to liquidity without collecting more liquidity resources than needed. The proposed pro rata calculation would provide NSCC with a method to reduce the supplemental liquidity deposits owed by all Providers who would otherwise be obligated to provide such a deposit, which would be appropriate in light of the likely stressed market conditions that would result in two or more Providers presenting a potential supplemental liquidity deposit of over $2 billion. Likewise, because NSCC would recalculate supplemental liquidity deposit obligations each business day, NSCC will no longer need to hold supplemental liquidity deposits for the extended periods under its current Rule 4(A), which could also alleviate liquidity pressures on its Members. Accordingly, the Commission finds the proposal is consistent with reducing systemic risks, and promoting the stability of the broader financial system as contemplated in Section 805(b) of the Clearing Supervision Act.52

For the reasons stated above, the Commission finds the changes proposed in the Advance Notice are consistent with Section 805(b) of the Clearing Supervision Act.53

B. Consistency With Rule 17Ad–22(e)(7)(i) and (ii)

The Commission finds the changes proposed in the Advance Notice are consistent with Rules 17Ad–22(e)(7)(i) and (ii), each promulgated under the Exchange Act,54 for the reasons described below.

Rule 17Ad–22(e)(7)(i) under the Exchange Act requires that a covered clearing agency establish, implement, maintain and enforce written policies and procedures reasonably designed to maintain sufficient liquid resources at the minimum in all relevant currencies to effect same-day and, where appropriate, intraday and multiday settlement of payment obligations with a high degree of confidence under a wide range of foreseeable stress scenarios that includes, but is not limited to, the default of the participant family that would generate the largest aggregate payment obligation for the covered clearing agency in extreme but plausible market conditions.55 Rule 17Ad–22(e)(7)(ii) under the Act requires that a cover clearing agency establish, implement, maintain and enforce written policies and procedures reasonably designed to hold qualifying liquid resources sufficient to meet the minimum liquidity resource requirement under Rule 17Ad–22(e)(7)(i) in each relevant currency for which the covered clearing agency has

51 The Commission has reviewed and considered the results of NSCC’s hypothetical impact studies. See supra note 30 and accompanying text. Based on that review, the Commission concludes that the proposal could not mitigate the risks to NSCC that could arise if NSCC is unable to secure adequate default liquidity from other sources in an amount necessary to meet its liquidity needs. For example, the proposal could help mitigate the risks that could arise if investor demand for the short-term notes issued under the Commercial Paper Program weakens, there is limited investor demand for term debt issued pursuant to a Term Debt Issuance, or NSCC is unable to renew its Line of Credit at the targeted amount.

52 12 U.S.C. 5464(b).


54 17 CFR 240.17Ad–22(e)(7)(i) and (ii).

payment obligations owed to its clearing members. 56

As described above, the changed proposed in the Advance Notice would help strengthen NSCC’s ability to maintain sufficient liquid resources to complete end-of-day settlement in the event of the Member default by allowing NSCC to calculate and collect, when applicable, supplemental liquidity deposits every business day, or on an intraday basis, from those Members that pose the largest liquidity exposures to NSCC on that day. These resources would be available to NSCC to complete end-of-day settlement in the event of the default of a Member. Moreover, the Commission has reviewed and considered the impact study results provided by NSCC comparing the proposal against the observed regulatory liquidity needs and NSCC’s qualifying liquid resources available during the period from 2016 through 2020, to assess both pro-forma and hypothetical impacts of the proposal under various liquidity scenarios,57 and finds that these results generally indicated that the proposal would continue allow NSCC to meet its regulatory liquidity obligations.

In addition, deposits made to satisfy supplemental liquidity deposit obligations are currently and will continue to be required to be made as cash deposits, which will continue to be held by NSCC at either its cash deposit account at the Federal Reserve Bank of New York, at a creditworthy commercial bank, or in other investments pursuant to NSCC’s Clearing Agency Investment Policy.58 Therefore, supplemental liquidity deposits would continue to be considered a qualifying liquid resource, as defined by Rule 17Ad–22(a)(14),59 and would support NSCC’s ability to hold qualifying liquid resources sufficient to meet the minimum liquidity resource requirement under Rule 17Ad–22(e)(7)(i),60 as required by Rule 17Ad–22(e)(7)(ii).61 Accordingly, the Commission finds that implementation of the proposed amendments to supplemental liquidity deposits would be consistent with Rule 17Ad–22(e)(7)(i) and (ii) under the Exchange Act.

IV. Conclusion

It is therefore noticed, pursuant to Section 806(e)(1)(I) of the Clearing Supervision Act, that the Commission does not object to Advance Notice (SR–NSCC–2021–801) and that NSCC is authorized to implement the proposed change as of the date of this notice or the date of an order by the Commission approving proposed rule change SR–NSCC–2021–002, whichever is later.

By the Commission.

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09786 Filed 5–7–21; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–91753; File No. SR–MRX–2021–05]

Self-Regulatory Organizations; Nasdaq MRX, LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Nasdaq MRX, LLC (“MRX” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III, below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is available on the Exchange’s website at https://listingcenter.nasdaq.com/rulebook/mrx/rules, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the SEC a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that are MRX members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon

56 17 CFR 240.17Ad–22(e)(7)(ii). For purposes of Rule 17Ad–22(e)(7)(ii), “qualifying liquid resources” are defined in Rule 17Ad–22(a)(14) as including, in part, cash held either at the central bank of issue or at creditworthy commercial banks. 17 CFR 240.17Ad–22(a)(14).

57 See supra note 30 and accompanying text.


60 17 CFR 240.17Ad–22(e)(7)(i).

61 17 CFR 240.17Ad–22(e)(7)(ii).


65 Unless otherwise specified, capitalized terms used in this rule filing are defined as set forth in Rule General 7 (Consolidated Audit Trail Compliance) (MRX General 7 incorporates The Nasdaq Stock Market LLC General 7 by reference).


67 Section 11.1(b) of the CAT NMS Plan.
the SEC’s approval of the Proposed CAT Fee Plan Amendment.

While these amendments are effective upon filing, the Exchange has designated the proposed amendments to be operative following Commission approval of the Join [sic] Industry Plan Amendment to the National Market System Plan Governing the Consolidated Audit Trail filed on March 31, 2021.7

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”).8 The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).9

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, in addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee.10 As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” 11 The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.12

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.13

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,”14 thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.15 Under the CAT Funding Model

---

8 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 21051 [sic], 21074 [sic].
9 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 21051 [sic].
10 Proposed CAT Fee Plan Amendment at 21054–55.
11 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.
15 See Proposed CAT Fee Plan Amendment at 21055–56 [sic]. Note that, in the funding model set in more detail below. Continued
Model as proposed. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic. Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment, message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time. The Reportable Events may vary over time if the IM Reporting Tech Specs are amended. However, Reportable Events forth in Article XI of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Execution Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.

For additional discussions regarding the 75%–25% allocation, see Proposed CAT Fee Plan Amendment at 21056–58 [sic].

For additional discussions regarding the use of message traffic for calculating Industry Member CAT fees, see Proposed CAT Fee Plan Amendment at 21059 [sic].

See Proposed CAT Fee Plan Amendment at 21056–57.


Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2d CAT in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality. For example, charging Industry Members on the basis of message traffic may impact market makers’ disparity because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic. Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of whether the order is subsequently routed or executed; and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members.

22 Section 1.1 of the CAT NMS Plan; Nasdaq General 7 Section 3(e)(6) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.” (MRX General 7 incorporates The Nasdaq Stock Market LLC General 7 by reference).

24 See Proposed CAT Fee Plan Amendment at 21058.

25 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order events and all related messages reported to the CAT by an Options Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.
included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Equity Market Maker CAT fee. To implement the Equity Market Maker discount, the Exchange proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an Equity Market Maker, a discount would be applied to its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee would then be calculated by multiplying its market making message traffic in NMS Stocks by the Equity Market Maker CAT fee in accordance with their message traffic percentage.”

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.”

To implement the Options Market Maker CAT fee, the Exchange proposes to add paragraph (g) to the fee schedule. Proposed paragraph (g)(2) of the fee schedule would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker CAT fee would be subject to applicable discounts for Options Market Maker quote sent time exemption, as discussed above.”

25 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 21058.

26 See Proposed CAT Fee Plan Amendment at 21058.

27 See Proposed CAT Fee Plan Amendment at 21058.

28 Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.

29 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnumplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.

30 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Equity Market Makers. See Proposed CAT Fee Plan Amendment at 21058.

31 For additional discussions regarding the Minimum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59.

32 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.

33 For additional discussions regarding the Maximum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59 (sic).
To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), or (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.34

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,328,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”).35 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 2020, the effective date for the Financial Accountability Milestones,36 certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $103,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to the market making discounts and the maximum fee). The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4th of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule.

34 See Proposed CAT Fee Plan Amendment at 21063.
35 See Proposed CAT Fee Plan Amendment at 21064–65.
36 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress Report, Initial Industry Member Core Equity and Option Reporting was completed on schedule by July 31, 2020.

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee. The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accountant.


To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee “subject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022 ...</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022.</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022.</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022.</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on CAT Data from fourth quarter of 2022. 1st quarter of 2023.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the
requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(i) of the CAT NMS Plan. Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ......................... 1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023 ...</td>
<td>2nd quarter of 2023.</td>
<td></td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ........................ 1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023.</td>
<td>3rd quarter of 2023.</td>
<td></td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ........................ 1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023 ..</td>
<td>4th quarter of 2023.</td>
<td></td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ........................ 1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
<td></td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023.

To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “[e]ach Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 21067.

42 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.

43 See Proposed CAT Fee Plan Amendment at 21067–68.

44 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are
The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment.46 Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraphs (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law.47

### (3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment.46 Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraphs (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law.47

### 2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act, which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act, because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act, which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.”54 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan.52 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,”53 as required by the Exchange Act. The Operating Committee determined that the CAT

### Budgeted Costs for the CAT for the Relevant Year

[Table]

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from third quarter of the relevant year.</td>
<td>4th quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from fourth quarter of the relevant year.</td>
<td>1st quarter of year following the relevant year.</td>
</tr>
</tbody>
</table>

46 See Proposed CAT Fee Plan Amendment at 21068.
47 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 21068.
51 See Proposed CAT Fee Plan Amendment at 21068.
52 See Proposed CAT Fee Plan Amendment at 21068–70.
53 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
54 CAT NMS Plan Approval Order at 84696.
fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers,” as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it

considered to involve an inequitable allocation of fees among members. As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its MRX members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

54 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.


56 See Proposed CAT Fee Plan Amendment at 21070.

Electronic Comments

- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR–MRX–2021–05 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–MRX–2021–05. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–MRX–2021–05 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.58

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09780 Filed 5–7–21; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–91758; File No. SR–CboeEDGX–2021–024]

Self-Regulatory Organizations; Cboe EDGX Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Cboe EDGX Exchange, Inc. (“Exchange” or “EDGX”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe EDGX Exchange, Inc. (the “Exchange” or “Cboe EDGX”) proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/options/regulation/rule_filings/edgx/), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the Securities and Exchange Commission (“SEC” or “Commission”) a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”).5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that are Members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”).6 The CAT


6 Section 11.1(b) of the CAT NMS Plan.


8 Section 11.1(b) of the CAT NMS Plan.

9 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 4, 56–57.
Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vi)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.

Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”). As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees.

The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the

---

8 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 4.

9 Proposed CAT Fee Plan Amendment at 10–11.

10 See also Sections 11.1(c), 11.2(e), and 11.3(a) and (b) of the CAT NMS Plan.

all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment, 17 message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time. 18 The Reportable Events may vary over time if the IM Reporting Tech Specs are amended. 19 However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Event, the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members. 20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality. 21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker 22 would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic. 23 Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; 24 and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period 25 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 31.

21 See Proposed CAT Fee Plan Amendment at 27–29.
22 Section 1.1 of the CAT NMS Plan, Rule 4.5(see) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.”
23 See Proposed CAT Fee Plan Amendment at 30–32.
24 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Industry Member with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by an Industry Member that are associated with any other
Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks.\textsuperscript{26} Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered,\textsuperscript{27} regardless of where the order is ultimately routed or executed.\textsuperscript{28}

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.\textsuperscript{29}

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period\textsuperscript{30} by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Equity Market Maker discount, the Exchange proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee
Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic.\textsuperscript{31} All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.\textsuperscript{31}

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (h)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the

\textsuperscript{26} See Proposed CAT Fee Plan Amendment at 32–33.
\textsuperscript{27} Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.
\textsuperscript{28} Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catdataplan.com). The discount would not apply to messages by the Industry Members that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 32.
\textsuperscript{29} Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Equity Market Makers. See Proposed CAT Fee Plan Amendment at 33.
\textsuperscript{30} For additional discussions regarding the Minimum Industry Member CAT Fee, See Proposed CAT Fee Plan Amendment at 33–35.
\textsuperscript{31} Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.

Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee
An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee.\textsuperscript{32} The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), and (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member

\textsuperscript{32} For additional discussions regarding the Maximum Industry Member CAT Fee, See Proposed CAT Fee Plan Amendment at 35–37.
CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs
As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period. 33

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees
The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)
As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”). 34 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones, 35 certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC: (1) [1] Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress

---

33 See Proposed CAT Fee Plan Amendment at 50–51.
34 See Proposed CAT Fee Plan Amendment at 55–60.
35 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-0043910004

Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee.

The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee.

The Exchange understands that the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021, the date of Full Availability and

---


38 See Proposed CAT Fee Plan Amendment at 60–63.
Regulatory Utilization of Transactional Database Functionality. As discussed above, the Period 3 CAT Costs to be recovered via the Period 3 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2020 through December 31, 2021. The collection of the full amount of the Period 3 CAT Fee will depend upon achievement of Full Availability and Regulatory Utilization of Transactional Database Functionality by December 31, 2021; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee.40 The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the

Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members will be required to commence paying the Period 4 CAT Fee in the second quarter of 2023, based on data from the first quarter of 2023.

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

40 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.
<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023 ..........</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023 ..........</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ..........</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023 ..........</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deem appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year</td>
<td>CAT Data from first quarter of the relevant year</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year</td>
<td>CAT Data from second quarter of the relevant year</td>
<td>3rd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ..........</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year</td>
<td>CAT Data from third quarter of the relevant year</td>
<td>4th quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ..........</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year</td>
<td>CAT Data from fourth quarter of the relevant year</td>
<td>1st quarter of following the relevant year.</td>
</tr>
</tbody>
</table>

---

43 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 66. 

44 See Proposed CAT Fee Plan Amendment at 65–68.
rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act,48 because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act,49 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[(t)he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.”50 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan.51 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,” 52 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers,”53 as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of

---

44 See Proposed CAT Fee Plan Amendment at 68–69.
45 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 69.
50 CAT NMS Plan Approval Order at 84696.
51 See Proposed CAT Fee Plan Amendment at 70–79.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.
CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members. As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(6) of the Act requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A) of the Act and paragraph (f) of Rule 19b–4 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission will institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–CboeEDGX–2021–024 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–CboeEDGX–2021–024. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–CboeEDGX–2021–024 and

55 See Proposed CAT Fee Plan Amendment at 78–79.
SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Nasdaq PHLX LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Extend the Expiration Date of the Temporary Amendments Concerning Video Conference Hearings

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”), and Rule 19b–4 thereunder, notice is hereby given that on April 28, 2021, Nasdaq PHLX LLC (“PHLX” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I and II below, which Items have been substantially prepared by the Exchange. The Exchange has designated the proposed rule change as constituting a “non-controversial” rule change under paragraph (f)(6) of Rule 19b–4 under the Act, which renders the proposal effective upon receipt of this filing by the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to extend the expiration date of the temporary amendments in SR–Phlx–2020–53 from April 30, 2021, to August 31, 2021. The proposed rule change would not make any changes to the text of the Exchange rules.

The text of the proposed rule change is available on the Exchange’s website at https://listingcenter.nasdaq.com/rulebook/phlx/rules, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to continue to harmonize Exchange Rule General 3, Section 16 with recent changes by the Financial Industry Regulatory Authority, Inc. (“FINRA”) to its Rule 1015 in response to the COVID–19 global health crisis and the corresponding need to restrict in-person activities. The Exchange originally filed proposed rule change SR–Phlx–2020–53, which allows the Exchange Review Council (“ERC”) to conduct hearings in connection with appeals of Membership Application Program decisions, on a temporary basis, by video conference, if warranted by the current COVID–19–related public health risks posed by an in-person hearing. While there are signs of improvement, the COVID–19 conditions necessitating the temporary amendments persist and, based on its assessment of current COVID–19 conditions and the lack of certainty as to when COVID–19–related health concerns and corresponding restrictions will meaningfully subside, the Exchange has determined that there is a continued need for this temporary relief for several months beyond April 30, 2021. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments in SR–Phlx–2020–53 from April 30, 2021, to August 31, 2021.

As set forth in SR–Phlx–2020–53, the Exchange also relies on COVID–19 data and criteria to determine whether the current public health risks presented by an in-person hearing may warrant a hearing by video conference. Based on that data and criteria, the Exchange does not believe the COVID–19–related health concerns necessitating this relief will meaningfully subside by April 30, 2021, and has determined that there will be a continued need for this temporary relief for several months beyond that date. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments originally set forth in SR–Phlx–2020–53 from April 30, 2021, to August 31, 2021. The extension of the temporary amendments allowing for specified ERC hearings to proceed by video conference will allow the Exchange’s critical adjudicatory functions to continue to operate effectively in these extraordinary circumstances—enabling the Exchange to fulfill its statutory obligations to protect investors and maintain fair and orderly markets—while also protecting the health and safety of hearing participants.

The Exchange has filed the proposed rule change for immediate effectiveness and has requested that the SEC waive the requirement that the proposed rule change not become operative for 30 days after the date of the filing, so the Exchange can implement the proposed rule change immediately.

2. Statutory Basis

The Exchange believes that its proposal is consistent with Section 6(b) of the Act, in general, and furthers the objectives of Section 6(b)(5) of the Act, in particular, in that it is designed to promote just and equitable principles of trade, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general to protect investors and the public interest, by providing greater harmonization between the Exchange rules and FINRA rules of similar purpose, resulting in less burdensome and more efficient regulatory compliance.
The proposed rule change, which extends the expiration date of the temporary amendments to the Exchange rules set forth in SR–Phlx–2020–53, will continue to aid the Exchange’s efforts to timely conduct hearings in connection with its core adjudicatory functions. Given current COVID–19 conditions and the uncertainty around when those conditions will meaningfully improve, without this relief allowing ERC hearings to continue to proceed by video conference, such hearings may need to be postponed indefinitely. The Exchange must be able to perform its critical adjudicatory functions in order to fulfill its statutory obligations to protect investors and maintain fair and orderly markets. As such, this relief is essential to the Exchange’s ability to fulfill its statutory obligations and allows hearing participants to avoid the serious COVID–19-related health and safety risks associated with in-person hearings.

Among other things, this relief will allow the ERC to timely provide members, disqualified individuals and other applicants an approval or denial of their applications. As set forth in detail in SR–Phlx–2020–53, this temporary relief allowing ERC hearings to proceed by video conference accounts for fair process considerations and will continue to provide fair process while avoiding the COVID–19-related public health risks for hearing participants. Accordingly, the proposed rule change extending this temporary relief is in the public interest and consistent with the Act’s purpose.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the temporary proposed rule change will impose any burden on competition not necessary or appropriate in furtherance of the purposes of the Act. As set forth in SR–Phlx–2020–53, the proposed rule change is intended solely to extend temporary relief necessitated by the continued impacts of the COVID–19 outbreak and the related health and safety risks of conducting in-person activities. The Exchange believes that the proposed rule change will prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act9 and subparagraph (f)(6) of Rule 19b–4 thereunder.10

A proposed rule change filed under Rule 19b–4(f)(6)11 normally does not become operative prior to 30 days after the date of the filing. However, pursuant to Rule 19b–4(f)(6)(iii),12 the Commission may designate a shorter time if such action is consistent with the protection of investors and the public interest. The Exchange has asked the Commission to waive the 30-day operative delay for this proposal to become operative immediately upon filing. The Exchange has indicated that the proposed rule change to extend the expiration date will continue to prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021.13 Importantly, extending the relief provided in Phlx–2020–53 immediately upon filing and without a 30-day operative delay will allow the Exchange to continue critical adjudicatory and review processes in a reasonable and fair manner and meet its critical investor protection goals, while also following best practices with respect to the health and safety of its employees.14 The Commission also notes that this proposal extends without change the temporary relief previously provided by Phlx–2020–53,15 and only during the period in which the Exchange’s operations are impacted by COVID–19. As proposed, the changes would be in place through August 31, 2021 and the amended rules will revert back to their original state at the conclusion of the temporary relief period and, if applicable, any extension thereof.16 For these reasons, the Commission believes that waiver of the 30-day operative delay for this proposal is consistent with the protection of investors and the public interest. Accordingly, the Commission hereby waives the 30-day operative delay and designates the proposal operative upon filing.17

At any time within 60 days of the filing of the proposed rule change, the Commission may designate a shorter time as designated by the Commission, or such shorter time as determined by the Commission. The Exchange has satisfied this requirement.

At any time within 60 days of the filing of the proposed rule change, the Commission may designate a shorter time as designated by the Commission, or such shorter time as determined by the Commission. The Exchange has satisfied this requirement.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–Phlx–2021–27 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

10 17 CFR 240.19b–4(f)(6). In addition, Rule 19b–4(f)(6) requires a self-regulatory organization to give the Commission written notice of its intent to file the proposed rule change at least five business days prior to the date of filing of the proposed rule change, or such shorter time as designated by the Commission. The Exchange has satisfied this requirement.
13 See supra item II.
14 See supra note 4.
15 See id. as noted above, the Exchange states that if it requires temporary relief from the rule requirements identified in this proposal beyond August 31, 2021, it may submit a separate rule filing to extend the effectiveness of the temporary relief under these rules.
16 For purposes only of waiving the 30-day operative delay, the Commission has considered the proposed rule change’s impact on efficiency, competition, and capital formation. See 15 U.S.C. 78c(f).
17 See supra note 4.
All submissions should refer to File Number SR–Phlx–2021–27. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change; the Commission does not edit personal identifying information from submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–Phlx–2021–27 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.18

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09773 Filed 5–7–21; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations: Cboe BYX Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a Fee Schedule to Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 21, 2021, Cboe BYX Exchange, Inc. (“Exchange” or “BYX”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe BYX Exchange, Inc. (the “Exchange” or “Cboe BYX”) proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/equities/regulation/rule_filings/byx/), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of those statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC ("Company") ("Operating Committee") has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants.4 The Operating Committee has filed with the Securities and Exchange Commission ("SEC" or "Commission") a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT ("CAT Funding Model") and to establish a fee schedule for Participant CAT fees ("Proposed CAT Fee Plan Amendment").5 The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves.6 Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are Members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter ("Total CAT Costs").7 The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).8


4 Section 11.1(b) of the CAT NMS Plan.
6 See Section 11.1(b) of the CAT NMS Plan.
7 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 4, 56–57.
8 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 4.
Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” 10 The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.11

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT. 12

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” 13 thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.14 Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”). 15

As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fee is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic.16 Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In each such paragraph, the Industry Member CAT fees are proposed by the Exchange in the Proposed CAT Fee Plan Amendment at 10–11.

14 See Proposed CAT Fee Plan Amendment at 12–16. Note that, in the funding model set forth in Article XI of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Execution Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.

15 For additional discussions regarding the 75%/25% allocation, see Proposed CAT Fee Plan Amendment at 16–20.

16 For additional discussions regarding the use of message traffic for calculating Industry Member CAT fees, see Proposed CAT Fee Plan Amendment at 21–22.

9 Proposed CAT Fee Plan Amendment at 10–11.
The Reportable Events may vary over their continuous quoting obligations.

The Reportable Events, as defined in the CAT Reporting Technical Specifications for Industry Members ("IM Reporting Tech Specs") as amended from time to time,18 will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.20

(D) Market Maker Discounts

As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality.21 For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount

Each Industry Member that is an Options Market Maker would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic.23 Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; 24 and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors ("SIP"). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period25 by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks.26 Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered.27

Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 32.

25 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 32.

26 See Proposed CAT Fee Plan Amendment at 32–33.

27 Note that Equity Market Makers do not have a quote sent time exemption comparable to the...
regardless of where the order is ultimately routed or executed. The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated in the same manner as the message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Equity Market Maker discount, the Exchange proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks ("Equity Market Maker"), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

Options Market Maker quote sent time exemption, as discussed above. Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 32.

Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Equity Market Makers. See Proposed CAT Fee Plan Amendment at 33.

(E) Minimum Industry Member CAT Fee
Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (h)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.”

(F) Maximum Industry Member CAT Fee
An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage ("Maximum Industry Member CAT Fee Re-Allocation").

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs
As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs...
for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.33

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

33 See Proposed CAT Fee Plan Amendment at 50–51.
34 See Proposed CAT Fee Plan Amendment at 55–60.
35 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
CAT during the period from June 22, 2020 through July 31, 2020. As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants’ Quarterly Progress Report,37 Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020. Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.” The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly Industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment.</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment.</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment.</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment.</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee.38 The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 began on January 1, 2021 and is expected to conclude on December 31, 2021, the date of Full Availability and Regulatory Utilization of Transactional Database Functionality. As discussed

38 See Proposed CAT Fee Plan Amendment at 60–63.
above, the Period 3 CAT Costs to be recovered via the Period 3 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2020 through December 31, 2021. The collection of the full amount of the Period 3 CAT Fee will depend upon achievement of Full Availability and Regulatory Utilization of Transaction Database Functionality by December 31, 2021; if not, the amount of the Period 3 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (c) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 3 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 3 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022 ............</td>
<td>2nd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022.</td>
<td>3rd quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022.</td>
<td>4th quarter of 2022.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022.</td>
<td>1st quarter of 2023.</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee.40 The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members will be required to commence paying the Period 4 CAT Fee in the second quarter of 2023, based on data from the first quarter of 2023.

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that “each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

---

39 The Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

40 See Proposed CAT Fee Plan Amendment at 63–65.
(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”). The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs.</td>
<td>CAT Data from second quarter of 2023.</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs.</td>
<td>CAT Data from third quarter of 2023.</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs.</td>
<td>CAT Data from fourth quarter of 2023.</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

41 The Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements for the Company.
42 See Proposed CAT Fee Plan Amendment at 65–68.
43 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 66.
44 CAT NMS Plan Approval Order at 84792.
Quarterly CAT fee | Quarterly industry member allocation | CAT data used for message traffic calculation | Payment due
---|---|---|---
Quarterly CAT Fee #2 | 1/4th of 75% of the budgeted annual CAT costs for the relevant year. | CAT Data from second quarter of the relevant year. | 3rd quarter of the relevant year.
Quarterly CAT Fee #3 | 1/4th of 75% of the budgeted annual CAT costs for the relevant year. | CAT Data from third quarter of the relevant year. | 4th quarter of the relevant year.
Quarterly CAT Fee #4 | 1/4th of 75% of the budgeted annual CAT costs for the relevant year. | CAT Data from fourth quarter of the relevant year. | 1st quarter of year following the relevant year.

(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment.45 Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (A) the Prime Rate plus 300 basis points, or (B) the maximum rate permitted by applicable law.46

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act,47 which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act,48 because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act,49 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.”50 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan.51 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,”52 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detail above. For the reasons discussed above, the Operating Committee determined that the 75%-25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the

45 See Proposed CAT Fee Plan Amendment at 68–69.
46 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to be a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 69.
50 CAT NMS Plan Approval Order at 84696.
51 See Proposed CAT Fee Plan Amendment at 70–79.
52 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers,” 53 as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

Section 6(b)(8) of the Act 54 requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its Members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A) of the Act 56 and paragraph (f) of Rule 19b–4 57 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission will institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR-ChoeBYX–2021–011 on the subject line.

Paper Comments
- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

53 Sections 6(b)(5) and 15A(b)(6) of the Exchange Act.
55 See Proposed CAT Fee Plan Amendment at 78–79.
All submissions should refer to File Number SR-ChgoBYX-2021-011. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR-ChgoBYX-2021-011 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.\(^ 58 \)

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09768 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

Sunshine Act Meeting; Cancellation


PREVIOUSLY ANNOUNCED TIME AND DATE OF THE MEETING: Friday, May 7, 2021 at 1:00 p.m.

CHANGES IN THE MEETING: The Closed Meeting scheduled for Friday, May 7, 2021 at 1:00 p.m., has been cancelled.

CONTACT PERSON FOR MORE INFORMATION: For further information; please contact Vanessa A. Countryman from the Office of the Secretary at (202) 551–5400.

Dated: May 6, 2021.

Vanessa A. Countryman,
Secretary.

[FR Doc. 2021–09940 Filed 5–6–21; 4:15 pm]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Cboe Exchange, Inc.; Notice of Filing of a Proposed Rule Change To Increase Position Limits for Options on Certain Exchange-Traded Funds and an Exchange-Traded Note

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”)\(^ 1 \) and Rule 19b–4 thereunder,\(^ 2 \) notice is hereby given that on April 21, 2021, Cboe Exchange, Inc. (“Exchange” or “Cboe Options”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe Exchange, Inc. (the “Exchange” or “Cboe Options”) proposes to increase position limits for options on certain exchange-traded funds (“ETFs”) and exchange-traded notes (“ETNs”). The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://www.cboe.com/AboutCBOE/CBOELegalRegulatoryHome.aspx), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Position limits are designed to address potential manipulative schemes and adverse market impacts surrounding the use of options, such as disrupting the market in the security underlying the options. While position limits should address and discourage the potential for manipulative schemes and adverse market impact, such limits must therefore be balanced between mitigating concerns of any potential manipulation and the cost of inhibiting potential hedging activity that could be used for legitimate economic purposes.

The Exchange has observed an ongoing increase in demand, for both trading and hedging purposes, in options on the following exchange-traded products (“ETPs”): (1) SPDR Gold Shares (“GLD”), (2) iShares Silver Trust (“SLV”), (3) iShares iBoxx $ Investment Grade Corporate Bond ETF (“LQD”), (4) VanEck Vectors Gold Miners ETF (“GDX”), (5) iPath S&P 500 VIX Short-Term Futures ETN (“VXX”), and (6) ProShares Ultra VIX Short-Term Futures ETF (“UVXY”), and collectively, with the aforementioned ETPs, the “Underlying ETPs”). Though the demand for these options appears to have increased, position limits for options on the Underlying ETFs have remained the same. The Exchange believes these unchanged position limits may have impeded, and may continue to impede, trading activity and strategies of investors, such as use of effective hedging vehicles or income generating strategies (e.g., buy-write or put-write), and the ability of Market-Makers to make liquid markets with tighter spreads in these options resulting in the transfer of volume to over-the-counter (“OTC”) markets. OTC transactions occur through bilateral agreements, the terms of which are not publicly disclosed to the marketplace.

As such, OTC transactions do not contribute to the price discovery process on a public exchange or other lit markets. Therefore, the Exchange believes that the proposed increases in


position limits for options on the Underlying ETPs may enable liquidity providers to provide additional liquidity to the Exchange and other market participants to transfer their liquidity demands from OTC markets to the Exchange. As described in further detail below, the Exchange believes that the continuously increasing market capitalization of the Underlying ETPs, ETP component securities, as well as the highly liquid markets for those securities, reduces the concerns for potential market manipulation and/or disruption in the underlying markets upon increasing position limits, while the rising demand for trading options on the Underlying ETPs for legitimate economic purposes compels an increase in position limits.

Proposed Position Limits for Options on the Underlying ETPs

Position limits for options on ETPs are determined pursuant to Rule 8.30 and vary according to the number of outstanding shares and the trading volumes of the underlying stocks or ETPs over the past six months. Pursuant to Rule 8.30, the largest in capitalization and the most frequently traded stocks and ETPs have an option position limit of 250,000 contracts (with adjustments for splits, re-capitalizations, etc.) on the same side of the market; and smaller capitalization stocks and ETPs have position limits of 200,000, 75,000, 50,000 or 25,000 contracts (with adjustments for splits, re-capitalizations, etc.) on the same side of the market.

Options on GLD, SLV, LQD, GDX, VXX and UVXY are currently subject to the standard position limit of 250,000 contracts as set forth in Rule 8.30. Rule 8.30.07 sets forth separate, higher position limits for options on specific ETPs. The Exchange proposes to amend Rule 8.30.07 to increase the position limits and, as a result, exercise limits, for options on each of GLD, SLV, LQD, GDX, VXX and UVXY. The table below represents the current and proposed, position limits for options on the ETPs subject to this proposal:

<table>
<thead>
<tr>
<th>Product</th>
<th>Current position limit</th>
<th>Proposed position limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLD</td>
<td>250,000</td>
<td>1,000,000</td>
</tr>
<tr>
<td>SLV</td>
<td>250,000</td>
<td>500,000</td>
</tr>
<tr>
<td>LQD</td>
<td>250,000</td>
<td>500,000</td>
</tr>
<tr>
<td>GDX</td>
<td>250,000</td>
<td>500,000</td>
</tr>
<tr>
<td>VXX</td>
<td>250,000</td>
<td>500,000</td>
</tr>
<tr>
<td>UVXY</td>
<td>250,000</td>
<td>500,000</td>
</tr>
</tbody>
</table>

The Exchange notes that the proposed position limit for options on GLD is consistent with existing position limits for options on the iShares Russell 2000 ETF (“IWM”), the iShares MSCI Emerging Markets ETF (“EEM”), iShares China Large-Cap ETF (“FXI”) and iShares MSCI EAFE ETF (“EFA”), while the proposed limits for options on LQD, SLV and GDX are consistent with current position limits for options on the iShares MSCI Brazil Capped ETF (“EWZ”), iShares 20+ Year Treasury Bond Fund ETF (“TLT”), iShares MSCI Japan ETF (“EWJ”), iShares iBoxx High Yield Corporate Bond Fund (“HYG”) and Financial Select Sector SPDR Fund (“XLF”). The Exchange represents that the Underlying ETPs qualify for either (1) the initial listing criteria set forth in Rule 4.3.06(c) for ETNs holding non-U.S. component securities, (2) generic listing standards for series of portfolio depository receipts and index fund shares based on international or global indexes under which a comprehensive surveillance agreement (“CSA”) is not required, or (3) the initial listing criteria set forth in Rule 4.3.13(c) for ETNs (or, Index-Linked Securities), as well as the continued listing criteria in Rule 4.4 (for ETNs) and Rule 4.4.14 (for ETNs). In compliance with its listing rules, the Exchange also represents that non-U.S. component securities that are not subject to a comprehensive surveillance agreement (“CSA”) do not, in the aggregate, represent more than 50% of the weight of any of the Underlying ETPs that are ETFs.

The Exchange notes that the proposed position limit for options on GLD is consistent with existing position limits for options on the iShares Russell 2000 ETF ("IWM"), the iShares MSCI Emerging Markets ETF ("EEM"), iShares China Large-Cap ETF ("FXI") and iShares MSCI EAFE ETF ("EFA"), while the proposed limits for options on LQD, SLV and GDX are consistent with current position limits for options on the iShares MSCI Brazil Capped ETF ("EWZ"), iShares 20+ Year Treasury Bond Fund ETF ("TLT"), iShares MSCI Japan ETF ("EWJ"), iShares iBoxx High Yield Corporate Bond Fund ("HYG") and Financial Select Sector SPDR Fund ("XLF"). The Exchange represents that the Underlying ETPs qualify for either (1) the initial listing criteria set forth in Rule 4.3.06(c) for ETNs holding non-U.S. component securities, (2) generic listing standards for series of portfolio depository receipts and index fund shares based on international or global indexes under which a comprehensive surveillance agreement (“CSA”) is not required, or (3) the initial listing criteria set forth in Rule 4.3.13(c) for ETNs (or, Index-Linked Securities), as well as the continued listing criteria in Rule 4.4 (for ETNs) and Rule 4.4.14 (for ETNs). In

The Exchange notes that the proposed position limit for options on GLD is consistent with existing position limits for options on the iShares Russell 2000 ETF ("IWM"), the iShares MSCI Emerging Markets ETF ("EEM"), iShares China Large-Cap ETF ("FXI") and iShares MSCI EAFE ETF ("EFA"), while the proposed limits for options on LQD, SLV and GDX are consistent with current position limits for options on the iShares MSCI Brazil Capped ETF ("EWZ"), iShares 20+ Year Treasury Bond Fund ETF ("TLT"), iShares MSCI Japan ETF ("EWJ"), iShares iBoxx High Yield Corporate Bond Fund ("HYG") and Financial Select Sector SPDR Fund ("XLF"). The Exchange represents that the Underlying ETPs qualify for either (1) the initial listing criteria set forth in Rule 4.3.06(c) for ETNs holding non-U.S. component securities, (2) generic listing standards for series of portfolio depository receipts and index fund shares based on international or global indexes under which a comprehensive surveillance agreement (“CSA”) is not required, or (3) the initial listing criteria set forth in Rule 4.3.13(c) for ETNs (or, Index-Linked Securities), as well as the continued listing criteria in Rule 4.4 (for ETNs) and Rule 4.4.14 (for ETNs). In
The Exchange has collected the following trading statistics regarding shares of and options on the Underlying ETPs and the values of the Underlying ETPs and their component securities or index components, as applicable:

<table>
<thead>
<tr>
<th>Product</th>
<th>ADV 7 (ETF shares) (millions)</th>
<th>ADV (option contracts)</th>
<th>Shares outstanding (millions) 6</th>
<th>Fund market cap (USD) (millions) 8</th>
<th>Share value 10 (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLD</td>
<td>12.3</td>
<td>257,700</td>
<td>354.30</td>
<td>70,195.7</td>
<td>161.71 (NAV).</td>
</tr>
<tr>
<td>SLV</td>
<td>33.1</td>
<td>376,700</td>
<td>619.3</td>
<td>14,228.4</td>
<td>22.57 (NAV).</td>
</tr>
<tr>
<td>LQD</td>
<td>14.1</td>
<td>30,300</td>
<td>301.8</td>
<td>54,113.7</td>
<td>130.13 (NAV).</td>
</tr>
<tr>
<td>GDX</td>
<td>39.4</td>
<td>166,000</td>
<td>419.8</td>
<td>16,170.5</td>
<td>33.80 (NAV).</td>
</tr>
<tr>
<td>VXX</td>
<td>39.3</td>
<td>289,800</td>
<td>110.8</td>
<td>1,023</td>
<td>10.31 (Closing Indicative Value).</td>
</tr>
<tr>
<td>UVXY</td>
<td>29.3</td>
<td>113,500</td>
<td>228.7</td>
<td>1,580.6</td>
<td>4.85 (NAV).</td>
</tr>
</tbody>
</table>

The Exchange has collected the same trading statistics, where applicable, as above regarding a sample of other ETPs, as well as the current position limits for options on such ETPs pursuant to Rule 8.30.07, to draw comparisons in support of proposed position limit increases for options on the Underlying ETPs (see further discussion below):

<table>
<thead>
<tr>
<th>Product</th>
<th>ADV (ETF shares) (millions)</th>
<th>ADV (option contracts)</th>
<th>Shares outstanding (millions) 6</th>
<th>Fund market cap (USD) (millions) 9</th>
<th>Share value (USD)</th>
<th>Current position limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEM</td>
<td>55.9</td>
<td>284,700</td>
<td>581.4</td>
<td>30,262.2</td>
<td>53.79 (NAV)</td>
<td>1,000,000</td>
</tr>
<tr>
<td>FXI</td>
<td>24.6</td>
<td>128,900</td>
<td>91.2</td>
<td>4,398.9</td>
<td>47.60 (NAV)</td>
<td>1,000,000</td>
</tr>
<tr>
<td>EFA</td>
<td>29.6</td>
<td>130,900</td>
<td>719.4</td>
<td>53,801.8</td>
<td>77.02 (NAV)</td>
<td>1,000,000</td>
</tr>
<tr>
<td>EWZ</td>
<td>29.2</td>
<td>139,400</td>
<td>173.8</td>
<td>6,506.8</td>
<td>33.71 (NAV)</td>
<td>500,000</td>
</tr>
<tr>
<td>TLT</td>
<td>11.5</td>
<td>111,800</td>
<td>103.7</td>
<td>17,121.3</td>
<td>136.85 (NAV)</td>
<td>500,000</td>
</tr>
<tr>
<td>EWJ</td>
<td>8.2</td>
<td>15,500</td>
<td>185.3</td>
<td>13,860.7</td>
<td>69.72 (NAV)</td>
<td>500,000</td>
</tr>
<tr>
<td>HYG</td>
<td>30.5</td>
<td>261,600</td>
<td>254.5</td>
<td>24,067.5</td>
<td>86.86 (NAV)</td>
<td>500,000</td>
</tr>
</tbody>
</table>

Gold Shares represent fractional, undivided beneficial ownership interests in the Trust, the sole assets of which are gold bullion. The spot price for gold is determined by market forces in the 24-hour global OTC market for gold including spot, forwards, and options and other derivatives, together with exchange-traded futures and options. The Net Asset Value ("NAV") of the Trust is calculated based on the total ounces of gold owned by the Trust at the London Bullion Market Association ("LBMA") Gold Price PM of that day (plus any cash held by the Trust less accrued expenses). 12 The Exchange has observed that the ADV in GLD shares has increased from approximately 8.7 million shares in 2019 to 12.3 million shares by the end of 2020. Similarly, the ADV in options on GLD has increased from approximately 153,900 option contracts in 2019 to 257,700 option contracts by the end of 2020. The Exchange also notes that in the first quarter of 2021, GLD options experienced an ADV of approximately 395,100 option contracts. Additionally, comparing the statistics shown in the tables above for GLD and the sample of other ETFs with a current position limit of 1,000,000 contracts, the Exchange notes that the ADV for GLD options (257,700 option contracts) are more, or just as, liquid as EEM options (284,700 option contracts), FXI options (130,900 option contracts) and EFA options (130,900 option contracts). Also, as indicated in the table above, GLD’s market capitalization (approximately $70.2 billion) is higher than all three of these comparable ETFs, and, in addition to this, the Exchange notes that the NAV of GLD is higher than that of the NAV of EEM, FXI and EFA, which is indicative that the total value of its underlying components is generally higher. The Exchange believes that GLD’s share and option volume, its market capitalization, and the comparatively high value of its underlying components (as indicated by its NAV) are large enough to absorb potential price movements caused by a large trade in GLD.

Like that of GLD and spot gold, SLV seeks to reflect generally the performance of the price of silver and represents a cost-efficient alternative to investments in physical silver for
investors not otherwise in a position to participate directly in the market for physical silver. The SLV’s NAV is derived from its holdings in silver valued on the basis of the daily LBMA Silver Price.13 SLV, too, has experienced a significant increase in AVD [sic] in shares and options from 2019 through 2020. It grew from approximately 13.6 million shares in 2019 to 33.1 million shares by the end of 2020, and from approximately 118,800 option contracts in 2019 to 376,700 option contracts by the end of 2020. The Exchange also notes that SLV options experienced in ADV of approximately 1.1 million option contracts in the first quarter of 2021.14 Additionally, SLV generally experiences a significantly greater ADV in shares (33.1 million share) and in options (376,700 option contracts) than that of the ADV in shares and options for EWZ (29.2 million shares and 139,300 option contracts), TLT (11.5 million shares and 111,800 option contracts), EWJ (8.2 million shares and 15,500 option contracts) and HYG (30.5 million shares and 261,600 option contracts), and also has a comparable, or higher, market capitalization (approximately $14.2 billion) than EWZ, TLT and EWJ. As per the table above, options on each of these ETFs already have a position limit of 500,000 contracts — the proposed position limit for SLV options. The Exchange believes that SLV’s share and option volume and its market capitalization are large enough to absorb potential price movements caused by a large trade in SLV.

While the demand for options trading on GLD and SLV has evidently increased, and continues to increase, the position limits have remained the same, which the Exchange believes may be impacting the ability of Trading Permit Holders (“TPHs”) to effectively hedge against exposure to physical gold and silver. For example, a single TPH may manage groups of mutual funds (i.e., a fund complex), each of which may have different growth objectives. If one portfolio manager with a large group of funds has a relatively small exposure to spot gold or spot silver, they may hedge such exposure using GLD options or SLV options, respectively. Though relatively small, this hedge (up to 250,000 [sic] option contracts for GLD and for SLV) may utilize the TPH’s entire capacity against the position limit. As a result, the TPH’s other portfolio managers must look to use alternative vehicles to hedge gold or silver exposure for the funds under their management. The Exchange understands that, unlike GLD or SLV options, most of these alternatives hedging vehicles are not a perfect hedge, which creates liquidity issues and results in increased trading costs. As a result, the Exchange believes that the proposed position limit increases for both GLD and SLV options will allow TPHs to effectively hedge their total gold or silver exposure without having to seek other, less precise hedging vehicles.

LQD tracks the performance of the Markit iBoxx USD Liquid Investment Grade (“IBOXIG”) Index, which is an index designed as a subset of the broader U.S. dollar-denominated corporate bond market which can be used as a basis for tradable products, such as ETFs, and is comprised of over 6,800 bonds. The Exchange notes that from 2019 through 2020, ADV has grown significantly in shares of LQD and in options on LQD, from approximately 9.7 million shares in 2019 to 14.1 million through 2020, and from approximately 8,200 option contracts in 2019 to 30,300 through 2020. LQD also continued to experience significant growth in ADV in the first quarter of 2021 with an ADV of approximately 140,200 option contracts. Further, LQD generally experiences higher ADV in shares than both TLT (11.5 million shares) and EWJ (8.2 million shares) and almost double the ADV in option contracts than EWJ (15,500 option contracts). Options on each EWZ, TLT and EWJ are currently subject to a position limit of 500,000 contracts—the proposed limit for options on LQD. The NAV of LQD is also higher than, or comparable to, that of the NAV of the ETFs underlying the options that are currently subject to a position limit of 500,000 option contracts (as presented in the table above), which is indicative that the total value of its underlying components is generally higher or comparable. Per the tables above, LQD’s total market capitalization of approximately $54.1 billion is also higher than or comparable to the total market capitalization of the ETFs underlying the options currently subject to a position limit of 500,000

14 While volume in SLV options in the first quarter of 2021 experienced significantly high volume as a result of unusual market conditions, the Exchange believes that the existing possibility of such significant increases supports the proposed position limit increase.

16 Investment grade corporate bonds.
17 See supra note 14.

16 See VanEck Vectors Gold Miners ETF, available at
25030 Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Notices

and 261,600 option contracts), each of which is currently subject to a position limit of 500,000 option contracts—the proposed limit for options on GDX. GDX also experiences a comparable, or higher, market capitalization (approximately $16.2 billion) than EWZ, TLT and EWZ. Additionally, like that of LDQ above, there is currently no index option analogue for the GDX ETF on the GDMNTR Index approved for options trading, however, the components of the GDMNTR Index, which can be used to create the GDX ETF, currently must each have a market capitalization greater than $750 million, an ADV of at least 50,000 shares, and an average daily value traded of at least $1 million in order to be eligible for inclusion in the GDMNTR Index. The Exchange believes that the GDMNTR Index component inclusion requirements, as well as GDX’s share and option volume and total market capitalization, indicate that the GDX market is sufficiently large and liquid enough to absorb price movements as a result of potentially oversized trades.

VXX ETNs (which are unsecured debt obligations of the issuer) are designed to provide exposure to the S&P 500 VIX Short-Term Futures Index Total Return ("SPVXSTR"). The SPVXSTR Index is designed to provide access to equity market volatility through Choe Volatility ("VIX") Index futures by offering exposure to a daily rolling long position in the first and second month VIX futures contracts. The SPVXSTR Index generally reflects market participants’ views of the future direction of the VIX Index at the time of expiration of the VIX futures contracts comprising the index. VXX volume has increased over the years, growing from an ADV of approximately 28.6 million shares and 179,200 option contracts in 2019 to an ADV of approximately 39.3 million shares and 229,800 option contracts in 2020.

Similarly, the UVXY ETF provides leveraged exposure to the S&P 500 VIX Short-Term Futures Index Total Return ("SPVXSPID") Index. Like the SPVXSTR Index, the SPVXSPID Index measures the returns of a portfolio of monthly VIX futures contracts that rolls positions from first-month contracts into second-month contracts on a daily basis and maintains a weighted average of one month to expiration. UVXY volume has increased significantly from 2019 through 2020—from an ADV of approximately 12 million shares and 73,700 option contracts in 2019 to an ADV of approximately 29.3 million shares and 113,500 option contracts in 2020.

Both VXX and UVXY experience an ADV in shares and option contracts that is greater than, or comparable to, ADV in shares and/or option contracts for EWZ ($29.2 million shares and 139,400 option contracts), TLT ($11.5 million shares and 111,800 option contracts), EWJ (6.2 million shares and 15,500 option contracts), and HYG (30.5 million shares). As stated, options on EWZ, TLT, EWJ and HYG are all currently subject to the same position limit (500,000 option contracts) proposed for VXX and UVXY options. The Exchange also notes that, while VIX options share similar trading characteristics with options on VXX and UVXY, VIX options are not currently subject to position limits. Moreover, the 2020 ADV for trading in VIX futures was approximately 192,000 contracts and VIX futures currently have a value of approximately $7.6 billion in open interest. The Exchange believes that the ADV in shares of and options on VXX and UVXY, along with the robust market that exists for the underlying index components (VIX futures) in connection with both ETPs, indicates that the market for these ETPs is sufficiently large and liquid enough to absorb price movements and large-sized trades. In addition to this, both the VXX and UVXY are used as key indicators of the health of the global volatility market. The VIX futures that comprise each product are a perfect hedge to the underlying delta risk; however, such futures are not recognized as hedges for options contract equivalent of the net delta ("OCEND") purposes. A TPH that is not delta neutral must be hedged to the extent that the OCEND stays within the applicable position limit. The Exchange understands that due to the OCEND limitations and current position limits for options on VXX and UVXY, TPHs must hedge with options and buy or create shares of the underlying ETFs despite already having a hedge on their position via the component futures. As a result, TPHs may be unable to provide the most concise pricing to customers participating in these ETPs due to the increased costs associated with transacting in additional or alternative hedging vehicles in order to comply with the position limits currently in place. The Exchange also believes that the approximate value of open interest in VIX futures ($7.6 billion) potentially necessitates substantial hedging capacity as both ETFs provide exposure to volatility trading based on VIX futures.

Creation and Redemption for ETPs

The Exchange believes that the creation and redemption process for the ETFs and ETN subject to this proposal (VXX) will lessen the potential for manipulative activity with options on the Underlying ETPs. Regarding ETFs, when an ETF provider wants to create more shares, it looks to an Authorized Participant (generally a market maker or other large financial institution) to acquire the securities the ETF is to hold. For instance, when an ETF is designed to track the performance of an index, the Authorized Participant can purchase all the constituent securities in the exact same weight as the index, then deliver those shares to the ETF provider. In exchange, the ETF provider gives the Authorized Participant a block of equally valued ETF shares, on a one-for-one fair value basis. The price is based on the NAV, not the market value at which the ETF is trading. The creation of new ETF units can be conducted during an entire trading day and is not subject to position limits. This process works in reverse where the ETF provider seeks to decrease the number of shares that are available to trade. Regarding the process for the ETN subject to this proposal, VXX, investors may redeem VXX shares on any redemption date, provided that the minimum amount of VXX shares redeemed is at least 25,000 shares. Investors redeeming VXX shares receive a cash payment equal to the applicable closing indicative value on the applicable valuation date (less the redemption fee). While there is no direct analogue to an ETF “creation” for an ETN, the ETN issuer may sell additional VXX shares from its inventory. In order to redeem existing VXX shares or issue new VXX shares, the issuer may transact in VIX futures (selling VIX futures in the case of a VXX redemption, and purchasing VIX futures in the case of issuing new VXX shares) in order to hedge its exposure. The applicable creation and redemption processes for

22 A redemption date for each series of VXX is the third business day following each valuation date (other than the final valuation date). The final redemption date will be the third business day following the valuation date that is immediately prior to the final valuation date. If notice is provided prior to noon E.T., the applicable valuation date is the date on which notice is provided; otherwise, the applicable valuation date is the business day following the date on which notice is provided. See VXX Prospectus, available at https://www.ipathetn.com/US/16/en/documentation.app?instrumentId =341408&contentId=7549819.

23 There is currently no minimum number of additional ETNs that an issuer may sell

---

19 Barclays Bank PLC.

the Underlying ETPs creates a direct link to the underlying components of the ETF or ETN and serves to mitigate potential price impact of the ETF and ETN shares that might otherwise result from increased position limits for the options on the Underlying ETPs.

The Exchange understands that the ETF and ETN creation and redemption processes seek to keep an ETF's or ETN's share price trading in line with the product's underlying net asset value (ETFs) or indicative value (ETNs). Because an ETF trades like a stock, its share price will fluctuate during the trading day, due to simple supply and demand. If demand to buy an ETF or ETN is high, for instance, an ETF's share price might rise above the value of its underlying securities or an ETN's share price above the value of the index components. When this happens, the Authorized Participant or issuer believes the ETF or ETN may now be overpriced, so it may buy shares of the component securities (ETF) or buy same the index component instruments (ETN) and then sell ETF or ETN shares in the open market. This may drive the ETF's or ETN's share price back toward the underlying net asset value or indicative index value. Likewise, if an ETF or ETN share price starts trading at a discount to the securities it holds or its index components, the Authorized Participant or issuer can buy shares of the ETF or ETN and redeem them for the underlying securities or index component instruments. Buying undervalued ETF or ETN shares may drive the share price of an ETF or ETN back toward fair value. This arbitrage process helps to keep an ETF's and ETN's share price in line with the value of its underlying portfolio or index components.

Surveillance and Reporting Requirements

The Exchange believes that increasing the position limits for the options on the Underlying ETPs would lead to a more liquid and competitive market environment for these options, which will benefit customers interested in trading these products. The reporting requirement for the options on the Underlying ETPs would remain unchanged. Thus, the Exchange would still require that each TPH or TPH organization that maintains positions in the options on the same side of the market, for its own account or for the account of a customer, report certain information to the Exchange. This information would include, but would not be limited to, the options' positions, whether such positions are hedged and, if so, a description of the hedge(s).

Market-Makers 24 (including Designated Primary Market-Makers ("DPMs")) would continue to be exempt from this reporting requirement, however, the Exchange may access Market-Maker position information.26 Moreover, the Exchange’s requirement that TPHs file reports with the Exchange for any customer who held aggregate large long or short positions on the same side of the market of 200 or more option contracts of any single class for the previous day will remain at this level for the options subject to this proposal and will continue to serve as an important part of the Exchange's surveillance efforts.27 The Exchange believes that the existing surveillance procedures and reporting requirements at the Exchange and other SROs are capable of properly identifying disruptive and/or manipulative trading activity. The Exchange also notes that it has adequate surveillances in place to detect potential manipulation, as well as reviews in place to identify potential changes in composition of the Underlying ETPs and continued compliance with the Exchange’s listing standards. These procedures utilize daily monitoring of market activity via automated surveillance techniques to identify unusual activity in both options and the underlyings, as applicable.28

The Exchange also notes that large stock holdings must be disclosed to the Commission by way of Schedules 13D or 13G,29 which are used to report ownership of stock which exceeds 5% of a company’s total stock issue and may assist in providing information in monitoring for any potential manipulative schemes.

The Exchange believes that the current financial requirements imposed by the Exchange and by the Commission adequately address concerns regarding potentially large, unhedged positions in the options on the Underlying ETPs. Current margin and risk-based haircut methodologies serve to limit the size of positions maintained by any one account by increasing the margin and/or capital that a TPH must maintain for a large position held by itself or by its customer.30 In addition, Rule 15c3-1 31 imposes a capital charge on TPHs to the extent of any margin deficiency resulting from the higher margin requirement.

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the Securities Exchange Act of 1934 (the “Act”) and the rules and regulations thereunder applicable to the Exchange and, in particular, the requirements of Section 6(b) of the Act.32 Specifically, the Exchange believes the proposed rule change is consistent with the Section 6(b)(5) requirements that the rules of an exchange be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, to foster cooperation and coordination with persons engaged in regulating, clearing, settling, processing information with respect to, and facilitating transactions in securities, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, to protect investors and the public interest. Additionally, the Exchange believes the proposed rule change is consistent with the Section 6(b)(5) requirement that the rules of an exchange not be designed to permit unfair discrimination between customers, issuers, brokers, or dealers.

The Exchange believes that the proposed increase in position limits for options on the Underlying ETPs will remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, protect investors and the public interest, because it will provide market participants with the ability to more effectively execute their trading and hedging activities. The proposed increases will allow market participants


25 A Designated Primary Market-Maker “is TPH organization that is approved by the Exchange to function in allocated securities as a Market-Maker (as defined in Rule 8.1) and is subject to the obligations under Rule 5.54 or as otherwise provided under the rules of the Exchange.” See Rule 1.1.

26 The Options Clearing Corporation (“OCC”) through the Large option Position Reporting (“LOPR”) system acts as a centralized service provider for TPH compliance with position reporting requirements by collecting data from each TPH or TPH organization, consolidating the information, and ultimately providing detailed listings of each TPH’s report to the Exchange, as well as Financial Industry Regulatory Authority, Inc. (“FINRA”), acting as its agent pursuant to a regulatory services agreement (“RSA”).

27 See Rule 8.43 for reporting requirements.

28 The Exchange believes these procedures have been effective for the surveillance of trading the options subject to this proposal and will continue to employ them.

29 See Rule 10.3 for a description of margin requirements.

31 17 CFR 240.15c3-1.


34 Id.
to more fully implement hedging strategies in related derivative products and to further use options to achieve investment strategies (e.g., there are other ETPs that use options on the ETFs or the ETN subject to this proposal as part of their investment strategy, and the applicable position limits as they stand today may inhibit these other ETPs in achieving their investment objectives, to the detriment of investors). Also, increasing the applicable position limits may allow Market-Makers to provide the markets for these options with more liquidity in amounts commensurate with increased consumer demand in such markets. The proposed position limit increases may also encourage other liquidity providers to shift liquidity, as well as encourage consumers to shift demand, from over the counter markets onto the Exchange, which will enhance the process of price discovery conducted on the Exchange through increased order flow.

In addition, the Exchange believes that the structure of the Underlying ETPs, the considerable market capitalization of the funds, underlying component securities, and/or indexed component securities, and the liquidity of the markets for the applicable options and underlying component securities will mitigate concerns regarding potential manipulation of the products and/or disruption of the underlying markets upon increasing the relevant position limits. As a general principle, increases in market capitalizations, active trading volume, and deep liquidity of securities do not lead to manipulation and/or disruption. This general principle applies to the recently observed increased levels of market capitalization and trading volume and liquidity in shares of and options on the Underlying ETPs (as described above), and, as a result, the Exchange does not believe that the options markets or underlying markets would become susceptible to manipulation and/or disruption as a result of the proposed position limit increases. Indeed, the Commission has previously expressed the belief that not just increasing, but removing, position and exercise limits may bring additional depth and liquidity to the options markets without increasing concerns regarding intermarket manipulation or disruption of the options or the underlying securities.

Further, the Exchange notes that the proposed rule change to increase position limits for options on the applicable position limits as the Exchange, as market participants would benefit from being able to trade options with increased position limits in an exchange environment in several ways, including but not limited to the following: (1) Enhanced efficiency in initiating and closing positions; (2) increased market transparency; and (3) heightened contra-party creditworthiness due to the role of OCC as issuer and guarantor. The Exchange notes that other options exchanges may choose to file similar proposals with the Commission to increase position limits on options on the Underlying ETPs.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received comments on the proposed rule change.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Within 45 days of the date of publication of this notice in the Federal Register or within such longer period up to 90 days (i) as the Commission may designate if it finds such longer period to be appropriate and publishes its reasons for so finding or (ii) as to which the Exchange consents, the Commission will:

A. By order approve or disapprove such proposed rule change, or
B. Institute proceedings to determine whether the proposed rule change should be disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR–CBOE–2021–029 on the subject line.

Paper Comments
- Send paper comments in triplicate to Secretary, Securities and Exchange Commission.


SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Nasdaq GEMX, LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Extend the Expiration Date of the Temporary Amendments Concerning Video Conference Hearings

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Act"), \(^1\) and Rule 19b–4 thereunder, \(^2\) notice is hereby given that on April 28, 2021, Nasdaq GEMX, LLC ("GEMX" or "Exchange") filed with the Securities and Exchange Commission ("SEC" or "Commission") the proposed rule change as described in Items I and II below, which Items have been substantially prepared by the Exchange. The Exchange has designated the proposed rule change as constituting a "non-controversial" rule change under paragraph (f)(6) of Rule 19b–4 under the Act, \(^3\) which renders the proposal effective upon receipt of this filing by the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to extend the expiration date of the temporary amendments in SR–GEMX–2020–21 from April 30, 2021, to August 31, 2021. \(^4\) The proposed rule change would not make any changes to the text of the Exchange rules.

The text of the proposed rule change is available on the Exchange’s website at https://listingcenter.nasdaq.com/rulebook/gemx/rules, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to continue to harmonize Exchange Rule General 3, Section 2 with recent changes by the Financial Industry Regulatory Authority, Inc. ("FINRA") to its Rule 1015 in response to the COVID–19 global health crisis and the corresponding need to restrict in-person activities. \(^5\) The Exchange originally filed proposed rule change SR–GEMX–2020–21, which allows the Exchange Review Council ("ERC") to conduct hearings in connection with appeals of Membership Application Program decisions, on a temporary basis, by video conference, if warranted by the current COVID–19-related public health risks posed by an in-person hearing. While there are signs of improvement, the COVID–19 conditions necessitating the temporary amendments persist and, based on its assessment of current COVID–19 conditions and the lack of certainty as to when COVID–19-related health concerns and corresponding restrictions will meaningfully subside, the Exchange has determined that there is a continued need for this temporary relief for several months beyond April 30, 2021. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments in


As set forth in SR–GEMX–2020–21, the Exchange also relies on COVID–19 data and criteria to determine whether the current public health risks presented by an in-person hearing may warrant a hearing by video conference. Based on that data and criteria, the Exchange does not believe the COVID–19-related health concerns necessitating this relief will meaningfully subside by April 30, 2021, and has determined that there will be a continued need for this temporary relief for several months beyond that date. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments originally set forth in SR–GEMX–2020–21 from April 30, 2021, to August 31, 2021. The extension of the temporary amendments allowing for specified ERC hearings to proceed by video conference will allow the Exchange’s critical adjudicatory functions to continue to operate effectively in these extraordinary circumstances—enabling the Exchange to fulfill its statutory obligations to protect investors and maintain fair and orderly markets—while also protecting the health and safety of hearing participants.

The Exchange has filed the proposed rule change for immediate effectiveness and has requested that the SEC waive the requirement that the proposed rule change not become operative for 30 days after the date of the filing, so the Exchange can implement the proposed rule change immediately.

2. Statutory Basis

The Exchange believes that its proposal is consistent with Section 6(b) of the Act, in general, and furthers the objectives of Section 6(b)(5) of the Act, in particular, in that it is designed to promote just and equitable principles of trade, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, to protect investors and the public interest, by providing greater harmonization between the Exchange rules and FINRA rules of similar purpose, resulting in less burdensome and more efficient regulatory compliance.

The proposed rule change, which extends the expiration date of the temporary amendments to the Exchange rules set forth in SR–GEMX–2020–21, will continue to aid the Exchange’s efforts to timely conduct hearings in connection with its core adjudicatory functions. Given current COVID–19 conditions and the uncertainty around when those conditions will meaningfully improve, without this relief allowing ERC hearings to continue to proceed by video conference, such hearings may need to be postponed indefinitely. The Exchange must be able to perform its critical adjudicatory functions in order to fulfill its statutory obligations to protect investors and maintain fair and orderly markets. As such, this relief is essential to the Exchange’s ability to fulfill its statutory obligations and allows hearing participants to avoid the serious COVID–19-related health and safety risks associated with in-person hearings.

Among other things, this relief will allow the ERC to timely provide members, disqualified individuals and other applicants an approval or denial of their applications. As set forth in detail in SR–GEMX–2020–21, this temporary relief allowing ERC hearings to proceed by video conference accounts for fair process considerations and will continue to provide fair process while avoiding the COVID–19-related public health risks for hearing participants. Accordingly, the proposed rule change extending this temporary relief is in the public interest and consistent with the Act’s purpose.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the temporary proposed rule change will impose any burden on competition not necessary or appropriate in furtherance of the purposes of the Act. As set forth in SR–GEMX–2020–21, the proposed rule change is intended solely to extend temporary relief necessitated by the continued impacts of the COVID–19 outbreak and the related health and safety risks of conducting in-person activities. The Exchange believes that the proposed rule change will prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021. Importantly, extending the relief provided in GEMX–2020–21 immediately upon filing and without a 30-day operative delay will allow the Exchange to continue critical adjudicatory and review processes in a reasonable and fair manner and meet its critical investor protection goals, while also following best practices with respect to the health and safety of its employees. The Commission also notes that this proposal extends without change the temporary relief previously provided by GEMX–2020–21, and only during the period in which the Exchange’s operations are impacted by extraordinary circumstances—enabling the Exchange to fulfill its statutory obligations and allows hearing participants to avoid the serious COVID–19-related health and safety risks associated with in-person hearings.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act and subparagraph (f)(6) of Rule 19b–4 thereunder.

A proposed rule change filed under Rule 19b–4(f)(6) normally does not become operative prior to 30 days after the date of the filing. However, pursuant to Rule 19b–4(f)(6)(iii), the Commission may designate a shorter time if such action is consistent with the protection of investors and the public interest. The Exchange has asked the Commission to waive the 30-day operative delay so that the proposal may become operative immediately upon filing. The Exchange has indicated that the proposed rule change to extend the expiration date will continue to prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021. Importantly, extending the relief provided in GEMX–2020–21 immediately upon filing and without a 30-day operative delay will allow the Exchange to continue critical adjudicatory and review processes in a reasonable and fair manner and meet its critical investor protection goals, while also following best practices with respect to the health and safety of its employees. The Commission also notes that this proposal extends without change the temporary relief previously provided by GEMX–2020–21, and only during the period in which the Exchange’s operations are impacted by extraordinary circumstances—enabling the Exchange to fulfill its statutory obligations and allows hearing participants to avoid the serious COVID–19-related health and safety risks associated with in-person hearings.

See supra note 5.
COVID–19. As proposed, the changes would be in place through August 31, 2021 and the amended rules will revert back to their original state at the conclusion of the temporary relief period and, if applicable, any extension thereof. For these reasons, the Commission believes that waiver of the 30-day operative delay for this proposal is consistent with the protection of investors and the public interest. Accordingly, the Commission hereby waives the 30-day operative delay and designates the proposal operative upon filing.

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR–GEMX–2021–04 on the subject line.

Paper Comments
- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090. All submissions should refer to File Number SR–GEMX–2021–04. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change; the Commission does not edit personal identifying information from submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–GEMX–2021–04 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority. J. Matthew DeLesDernier, Assistant Secretary.

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Nasdaq ISE, LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”), and Rule 19b–4 thereunder, notice is hereby given that on April 21, 2021, Nasdaq ISE, LLC (“ISE” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III, below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).


II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants. The Operating Committee has filed with the SEC a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees.”
The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves. Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are ISE members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

While these amendments are effective upon filing, the Exchange has designated the proposed amendments to be operative following Commission approval of the Join [sic] Industry Plan Amendment to the National Market System Plan Governing the Consolidated Audit Trail filed on March 31, 2021.7

(1) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant quarter (“Total CAT Costs”). The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee.10 As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(ii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.”11 The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.12

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.13

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,”14 thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

---

6 Section 11.1(b) of the CAT NMS Plan.
8 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 21051 [sic], 21074 [sic].
9 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 21051 [sic].
10 Proposed CAT Fee Plan Amendment at 21054–55.
11 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.
(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members.\(^{13}\) Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).\(^{14}\) As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

(C) Message Traffic

The Industry Member Allocation would be allocated to each Industry Member based on message traffic.\(^{15}\) Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to use message traffic in the calculation of Industry Member CAT fees.\(^{16}\) The CAT Reporting Technical Specifications for Industry Members are available at www.catnmsplan.com.

20 Due to the Phased Reporting approach, all Reportable Events will not be reported until all Industry Members are reporting all Reportable Events to the CAT. For example, Phase 2a CAT Reporting is scheduled for December 2021, and Small Industry Non-OATS Reporters are not required to report until December 2021. In addition, certain Reportable Events, such as simple options manual orders and OTC link messages, are not required to be reported until later in the Phased Reporting. For a detailed description of such Reportable Events, see CAT Reporting Technical Specifications for Industry Members available at www.catnmsplan.com. For the Industry Member CAT reporting timeline, see, e.g., FINRA Rule 6895(c). CAT costs will be allocated based on the Reportable Events reported to the CAT in any relevant quarter. As set out in the Proposed CAT Fee Plan Amendment, the Reportable Events reported to the CAT are determined by the relevant quarter. The Reportable Events included in the Industry Member Allocation are those events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.


22 The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of

As set out in the Proposed CAT Fee Plan Amendment,\(^{18}\) message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time.\(^{19}\) The Reportable Events may vary over time if the IM Reporting Tech Specs are amended.\(^{20}\) However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.

23 Section 1.1 of the CAT NMS Plan; Nasdaq General 7 Section 1(ee) defines an “Options Market Maker” as “a broker-dealer registered with an exchange for the purpose of making markets in options contracts traded on the exchange.” The rule incorporates The Nasdaq Stock Market LLC General 7 by reference.

24 See Proposed CAT Fee Plan Amendment at 21058.

25 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Options Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catnmsplan.com), the discount would not apply to messages by an Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.
trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%. Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”) would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on market making in NMS Stocks. Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed.

The relevant trade-to-quote ratio for the Equity Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%.

The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Equity Market Maker discount, the Exchange proposes to add paragraph (g)(2) to the fee schedule. Paragraph (g)(2) would state that “[w]hen calculating the message traffic of an Industry Member that is an equity market maker in NMS Stocks (“Equity Market Maker”), the Equity Market Maker’s market making message traffic would be a [sic] discounted by multiplying its market making message traffic in NMS Stocks by the NMS Stock trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic calculation would be subject to applicable discounts for Equity Market Maker message traffic for each of the four Industry Member CAT fees.

(E) Minimum Industry Member CAT Fee

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add paragraph (h) to the fee schedule. Proposed paragraph (h)(1) of the fee schedule would state that “[i]f the Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (h)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(F) Maximum Industry Member CAT Fee

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee

27 Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType of D. See CAT FAQ C5 (available at www.catnmsplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058–59.

28 Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all Options Market Makers. See Proposed CAT Fee Plan Amendment at 21058.

29 See Proposed CAT Fee Plan Amendment at 21058.

29 Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.

30 For additional discussions regarding the Minimum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59.

31 Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.

32 For additional discussions regarding the Maximum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59 (sic).
would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that

If an Industry Member’s CAT Fee that is calculated pursuant to proposed paragraphs (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period.34

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

34 See Proposed CAT Fee Plan Amendment at 21064–65.

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”).35 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones,36 certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006.

Using the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to the market making discounts and the maximum fee). The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4th of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee

35 See Proposed CAT Fee Plan Amendment at 21064–65.

36 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following each quarter for four quarters commencing upon approval of the Historical CAT Assessment by the SEC:

1. Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or
2. the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress Report,37 Initial Industry Member Core Equity and Option Reporting was completed on schedule by July 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants' Quarterly Progress Report,38 Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020. Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1 ..........</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2 ..........</td>
<td>$36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3 ..........</td>
<td>$36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4 ..........</td>
<td>$36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee.39 The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member's fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic fee would be calculated using CAT Data from the prior quarter.

39 See Proposed CAT Fee Plan Amendment at 21065–66.
Industry Members would be required to commence paying the Period 3 CAT Fee in the second quarter of 2022, based on CAT Data from the first quarter of 2022.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Total CAT Costs for 2021 to be used in calculating the quarterly Period 3 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. Such financial statements are required to be prepared in accordance with Section 9.2 of the CAT NMS Plan, including requirements related to compliance with GAAP, auditing by an independent public accounting firm and making the statements publicly available.

To implement the Period 3 CAT Fee, the Exchange proposes to add proposed paragraph (c) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (c) would state that “each Industry Member shall pay a Period 3 CAT Fee in the amount of the greater of the following each quarter for four quarters

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of Costs 40</td>
<td>75% of the Period 3 CAT</td>
<td>CAT Data from first quarter of 2022 ...</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of Costs 41</td>
<td>75% of the Period 3 CAT</td>
<td>CAT Data from second quarter of 2021.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of Costs 42</td>
<td>75% of the Period 3 CAT</td>
<td>CAT Data from third quarter of 2022 .</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of Costs 43</td>
<td>75% of the Period 3 CAT</td>
<td>CAT Data from fourth quarter of 2022</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee.41 The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 (“Period 4 CAT Costs”) will be calculated at the completion of 2022. Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2022 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter.

Industry Members will be required to commence paying the Period 4 CAT Fee in the second quarter of 2023, based on data from the first quarter of 2023.

To implement the Period 4 CAT Fee, the Exchange proposes to add proposed paragraph (d) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (d) would state that “each Industry Member shall pay a Period 4 CAT Fee in the amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market
The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan.

Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee #1</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan.
Participants as profits. In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from first quarter of the relevant year.</td>
<td>2nd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from second quarter of the relevant year.</td>
<td>3rd quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from third quarter of the relevant year.</td>
<td>4th quarter of the relevant year.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the budgeted annual CAT costs for the relevant year.</td>
<td>CAT Data from fourth quarter of the relevant year.</td>
<td>First quarter of year following the relevant year.</td>
</tr>
</tbody>
</table>

(3) Time and Manner of Payment

The Exchange proposes to add paragraph [e] to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment. Proposed paragraph [e](1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph [e](2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph [e](3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph [e](4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law.47

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act, which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act, because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act, which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act.

Section 11.1(b) of the CAT NMS Plan states that “[t]he Participants shall file with the SEC under Section 19(b) of the Exchange Act any such fees on Industry Members that the Operating Committee approves.” Per Section 11.1(b) of the CAT NMS Plan, the Exchange has filed this proposed rule change to implement the Industry Member CAT fees included in the CAT Funding Model approved by the Operating Committee. The Exchange believes that this proposal is consistent with the Exchange Act because it is consistent with, and implements, the CAT Funding Model, and is designed to assist the Exchange and its Industry Members in meeting regulatory obligations pursuant to the CAT NMS Plan. In approving the CAT NMS Plan, the SEC noted that the Plan “is necessary and appropriate in the public interest, for the protection of investors and the maintenance of fair and orderly markets, to remove impediments to, and perfect the mechanism of a national market system, or is otherwise in furtherance of the purposes of the Act.” 51 To the extent that this proposal implements the Plan, and applies specific requirements to Industry Members, the Exchange believes that this proposal furthers the objectives of the Plan, as identified by the SEC, and is therefore consistent with the Exchange Act.

The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan. 52 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the

---

46 CAT NMS Plan Approval Order at 84792.
47 See Proposed CAT Fee Plan Amendment at 21068.
49 CAT NMS Plan Approval Order at 84696.
52 See Proposed CAT Fee Plan Amendment at 21068–70.
purposes of this chapter,”53 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%–25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers.”54 as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been as direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

Section 6(b)(8) of the Act55 requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its ISE members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters.56 The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act.57 At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) Necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule...
change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
- Send an email to rule-comments@sec.gov. Please include File Number SR–ISE–2021–08 on the subject line.

Paper Comments
- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–ISE–2021–08. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–ISE–2021–08 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.58

J. Matthew DesLesDernier, Assistant Secretary.

Number SR–ISE–2021–08 and should be submitted on or before June 1, 2021.

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; Nasdaq BX, Inc.; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Adopt a Fee Schedule To Establish Fees for Industry Members Related to the National Market System Plan Governing the Consolidated Audit Trail

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”), and Rule 19b–4 thereunder, notice is hereby given that on April 21, 2021, Nasdaq BX, Inc. (“BX” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I, II, and III, below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to adopt a fee schedule to establish fees for Industry Members related to the National Market System Plan Governing the Consolidated Audit Trail (the “CAT NMS Plan” or “Plan”).3 The text of the proposed rule change is available on the Exchange’s website at https://listingcenter.nasdaq.com/rulebook/bx/rules, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

Under the CAT NMS Plan, the Operating Committee of the Consolidated Audit Trail, LLC (“Company”) (“Operating Committee”) has discretion to establish funding for the Company to operate the CAT, including establishing fees that the Participants will pay, and establishing fees for Industry Members that will be implemented by the Participants. The Operating Committee has filed with the SEC a proposal to amend the CAT NMS Plan to implement a revised funding model for the CAT (“CAT Funding Model”) and to establish a fee schedule for Participant CAT fees (“Proposed CAT Fee Plan Amendment”). The Proposed CAT Fee Plan Amendment describes the CAT Funding Model in detail, including the proposal to charge Industry Members CAT fees. The Participants are required to file with the SEC under Section 19(b) of the Exchange Act any CAT fees applicable to Industry Members that the Operating Committee approves. Accordingly, the purpose of this proposed rule change is to implement the required fee schedule provisions for CAT fees applicable to Industry Members that are BX members in accordance with the CAT Funding Model. The fee schedule provisions will become operative upon the SEC’s approval of the Proposed CAT Fee Plan Amendment.

While these amendments are effective upon filing, the Exchange has designated the proposed amendments to be operative following Commission approval of the Join (sic) Industry Plan Amendment to the National Market System Plan Governing the Consolidated Audit Trail filed on March 31, 2021.7

(a) CAT Funding Model

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, the CAT fees applicable to Participants and Industry Members for the relevant quarter would be designed to cover the total CAT costs associated with developing, implementing and operating the CAT for the relevant

quarter (“Total CAT Costs”). The CAT Funding Model would implement a bifurcated funding model, where these costs would be borne by both Participants and Industry Members. Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member CAT Fee”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”).

Under the CAT Funding Model set out in the Proposed CAT Fee Plan Amendment, each Industry Member will pay a CAT fee that is calculated by multiplying each Industry Member’s message traffic percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to certain market maker message traffic discounts, a Minimum Industry Member CAT Fee and a Maximum Industry Member CAT Fee. Each Industry Member that is an Options Market Maker will have a discount based on the options trade-to-quote ratio applied to its Options Market Maker message traffic when calculating that Industry Member’s message traffic, and each Industry Member that is an Equity Market Maker will have a discount based on the NMS Stock trade-to-quote ratio applied to its Equity Market Maker message traffic when calculating that Industry Member’s message traffic. In addition, each Industry Member will pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic. Furthermore, an Industry Member’s CAT fee would be subject to the Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic. Each of these aspects of the Industry Member CAT fee are discussed in more detail below.

(A) CAT Fees for Both Industry Members and Participants

Under the CAT Funding Model, both Participants and Industry Members would contribute to the funding of the CAT by paying a CAT fee. As permitted by Rule 613, the CAT NMS Plan requires Industry Members to pay a CAT fee. Rule 613(a)(1)(vii)(D) contemplates Industry Members contributing to the payment of CAT costs. Specifically, this provision requires the CAT NMS Plan to address “[h]ow the plan sponsors propose to fund the creation, implementation, and maintenance of the consolidated audit trail, including the proposed allocation of such estimated costs among the plan sponsors, and between the plan sponsors and members of the plan sponsors.”

In addition, as approved by the SEC, the CAT NMS Plan specifically contemplates CAT fees to be paid by both Industry Members and Participants. Section 11.1(b) states that “the Operating Committee shall have discretion to establish funding for the Company, including: (i) Establishing fees that the Participants shall pay; and (ii) establishing fees for Industry Members that shall be implemented by the Participants.” The Commission stated in approving the CAT NMS Plan the following:

The Commission believes that the proposed funding model reflects a reasonable exercise of the Participants’ funding authority to recover the Participants’ costs related to the CAT. The CAT is a regulatory facility jointly owned by the Participants and, as noted above, the Exchange Act specifically permits the Participants to charge members fees to fund their self-regulatory obligations. The Commission further believes that the proposed funding model is designed to impose fees reasonably related to the Participants’ self-regulatory obligations because the fees would be directly associated with the costs of establishing and maintaining the CAT, and not unrelated SRO services.

In its recent amendments to the CAT NMS Plan, the SEC reaffirmed the ability for the Participants to charge Industry Members a CAT fee. Specifically, the SEC noted that the amendments were not intended to change the basic funding structure for the CAT, which may include fees established by the Operating Committee, and implemented by the Participants, to recover from Industry Members the costs and expenses incurred by the Participants in connection with the development and implementation of the CAT.

Finally, as noted by the SEC, the CAT “substantially enhance[s] the ability of the SROs and the Commission to oversee today’s securities markets,” thereby benefitting all market participants. As such, both Participants and Industry Members should contribute to covering the cost of the CAT.

(B) 75%/25% Allocation Between Industry Members and Participants

The CAT NMS Plan as approved by the Commission provides the Operating Committee with discretion to establish CAT fees to be paid by Participants and Industry Members. The CAT Funding Model as set out in the Proposed CAT Fee Plan Amendment contemplates allocating CAT costs between Participants and Industry Members to permit the calculation of CAT fees based on market share for Participants and based on message traffic for Industry Members. Under the CAT Funding Model as proposed, Industry Members as a group would pay 75% of the Total CAT Costs (the “Industry Member Allocation”), and Participants as a group would pay 25% of the Total CAT Costs (the “Participant Allocation”). As discussed in more detail below, the Industry Member Allocation of 75% of the Total CAT Costs is included in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule for the Consolidated Audit Trail Funding Fees. In each such paragraph, the calculation of the Industry Member CAT fees is based on 75% of the Total CAT Costs.

---

8 Note that certain costs would be excluded from the Historical CAT Assessment Costs, as discussed in more detail below. See Proposed CAT Fee Plan Amendment at 21051 [sic], 21074 [sic].

9 Each Industry Member and Participant CAT Reporter would be required to pay CAT fees established via the CAT Funding Model. CAT Reporting Agents acting in their role as such would not have an obligation to pay CAT fees. See Proposed CAT Fee Plan Amendment at 21051 [sic].

10 Proposed CAT Fee Plan Amendment at 21054–55.

11 See also Sections 11.1(c), 11.2(c), and 11.3(a) and (b) of the CAT NMS Plan.


14 Securities Exchange Act Rel. No. 67457 (Jul. 18, 2012), 77 FR 45722, 45726 (Aug. 1, 2012). See Proposed CAT Fee Plan Amendment at 21055–56 [sic]. Note that, in the funding model set forth in Article XI of the CAT NMS Plan (“Original Funding Model”), costs were allocated between Execution Venues and certain Industry Members, whereas the CAT Funding Model would allocate costs between Participants and Industry Members.

15 For additional discussions regarding the 75%–25% allocation, see Proposed CAT Fee Plan Amendment at 21056–58 [sic].
(C) Message Traffic
The Industry Member Allocation would be allocated to each Industry Member based on message traffic. Each Industry Member CAT Reporter would pay a CAT fee that is calculated by multiplying each Industry Member’s percentage of the total message traffic of all Industry Members each quarter by the Industry Member Allocation, subject to certain market making discounts, Minimum Industry Member CAT Fees, and Maximum Industry Member CAT Fees. To implement the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in the calculation of Industry Member CAT fees, the Exchange proposes to describe the use of message traffic in proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule. In such paragraph, the Industry Member CAT fees are calculated based on Industry Members’ message traffic in the CAT.

As set out in the Proposed CAT Fee Plan Amendment, message traffic would be calculated based on Industry Members’ Reportable Events reported to the CAT as defined in the CAT Reporting Technical Specifications for Industry Members (“IM Reporting Tech Specs”) as amended from time to time. The Reportable Events may vary over time if the IM Reporting Tech Specs are amended. However, Reportable Events in the current IM Reporting Tech Specs that will be counted as message traffic include, but are not limited to, such events as the New Order Event, the Order Route Event and the Trade Event. In addition, message traffic will not include reporting activity related to Customer information as set forth in the CAT Reporting Customer and Account Technical Specifications for Industry Members.

(D) Market Maker Discounts
As set out in the Proposed CAT Fee Plan Amendment, the Operating Committee recognized that treating Options Market Maker message traffic and Equity Market Maker message traffic in the same way as other message traffic for purposes of calculating Industry Member CAT fees may result in an undue or inappropriate burden on competition or may lead to a reduction in market quality. For example, charging Industry Members on the basis of message traffic may impact market makers disproportionately because of their continuous quoting obligations. Moreover, in the context of Options Market Makers, message traffic would include bids and offers for every Listed Options strikes and series. Accordingly, the Operating Committee determined to discount Options Market Maker message traffic by the trade-to-quote ratio for Listed Options when calculating message traffic for Options Market Makers, and to discount Equity Market Maker message traffic by the trade-to-quote ratio for NMS Stocks when calculating message traffic for Equity Market Makers. The message traffic of Options Market Makers and Equity Market Makers, as discounted, would be counted as part of the total message traffic for all Industry Members. The practical effect of applying such discounts for market making activity would be to lower the CAT fees for Options Market Makers and Equity Market Makers.

(I) Options Market Maker Discount
Each Industry Member that is an Options Market Maker would have a discount based on the options trade-to-quote ratio applied to its options market making message traffic when calculating that Industry Member’s message traffic to prevent a potentially disproportionate effect on options market making due to such message traffic. Specifically, for each Options Market Maker, a discount would be applied to (1) all message traffic reported to the CAT by the Options Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered, regardless of where the order is ultimately routed or executed; and (2) all message traffic for which a “quote sent time” is reported by an Options Exchange on behalf of the given Options Market Maker.

The relevant trade-to-quote ratio for the Options Market Maker discount would be calculated each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the securities information processors (“SIP”). As an example, the trade-to-quote ratio for Listed Options for the fourth quarter of 2020 was 0.01%.

Accordingly, each Options Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the options trade-to-quote ratio. The Options Market Maker’s CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period by the Industry Member Allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.

To implement the Options Market Maker discount, the Exchange proposes to add paragraph (g)(1) to the fee schedule. Paragraph (g)(1) would state that “[w]hen calculating the message traffic of an Industry Member that is an Options Market Maker, the Options Market Maker’s market making message traffic would be discounted by multiplying its Listed Options market making message traffic by the Listed Options trade-to-quote ratio.” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule would state that the message traffic...
traffic calculation would be subject to applicable discounts for Options Market Maker message traffic for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks ("Equity Market Maker") would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s CAT fee to prevent a potentially disproportionate effect on market making in NMS Stocks.\footnote{See Proposed CAT Fee Plan Amendment at 21058.}

Specifically, for each Equity Market Maker, a discount would be applied to all message traffic reported to the CAT by the Equity Market Maker related to an order originated by a market maker in its market making account for a security in which it is registered,\footnote{Note that Equity Market Makers do not have a quote sent time exemption comparable to the Options Market Maker quote sent time exemption, as discussed above.} regardless of where the order is ultimately routed or executed.\footnote{Under the current version of the IM Reporting Tech Specs, the discount would apply to new order messages and all related messages reported to the CAT by an Equity Market Maker with an accountHolderType = O. See CAT FAQ C5 (available at www.catamsnplan.com). The discount would not apply to messages by the Industry Member that are associated with any other accountHolderType. The IM Reporting Tech Specs may be amended from time to time and this designation could be changed. See Proposed CAT Fee Plan Amendment at 21058.}

The relevant trade-to-quote ratio for the Equity Market Maker discount would be each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%. The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio. The Equity Market Maker CAT fee then would be calculated by multiplying its discounted percentage of the total message traffic of all Industry Members during the relevant time period\footnote{Note that the total message traffic of all Industry Members during the relevant time period will be calculated using the discounted total for all allocation, subject to the Minimum Industry Member CAT Fee and the Maximum Industry Member CAT Fee.} by the Industry Member

| (E) Minimum Industry Member CAT Fee |

Each Industry Member would be required to pay a Minimum Industry Member CAT Fee of $125 per quarter if its CAT fee would be less than $125 per quarter when calculated based on message traffic.\footnote{For additional discussions regarding the Minimum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59.} All Industry Members required to report to the CAT, including those that have not yet begun to report to the CAT due to the phased implementation schedule for the CAT, would be subject to the Minimum Industry Member CAT Fee. If any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage.\footnote{Options Market Makers and Equity Market Makers will be required to pay the Minimum Industry Member CAT Fee if their quarterly CAT fee calculated with the market maker discounts is less than $125 per quarter.}

To implement the Minimum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (b) to the fee schedule. Proposed paragraph (b)(1) of the fee schedule would state that “[t]he Minimum Industry Member CAT Fee is $125 per quarter.” Proposed paragraph (b)(2) of the fee schedule would state that “[i]f any Industry Member is required to pay the Minimum Industry Member CAT Fee, the total additional amount paid by all such Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Minimum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.

(II) Equity Market Maker Discount

Similarly, each Industry Member that is an equity market maker in NMS Stocks ("Equity Market Maker") would have a discount based on the NMS Stock trade-to-quote ratio applied to its market making message traffic in NMS Stocks when calculating that Industry Member’s CAT fee to prevent a potentially disproportionate effect on market making in NMS Stocks.\footnote{For additional discussions regarding the Maximum Industry Member CAT Fee, see Proposed CAT Fee Plan Amendment at 21058–59 (sic).}

The relevant trade-to-quote ratio for the Equity Market Maker discount would be each quarter based on the prior quarter’s SIP Data that is included in CAT Data. The discount is calculated by dividing the adjusted trade count (that is, the total number of trades for the quarter minus the total number of trade busts) by the total number of quotes received by the SIP. As an example, the trade-to-quote ratio for NMS Stocks for the fourth quarter of 2020 was 4.77%. The Equity Market Maker CAT fee would be calculated in the same manner as the Options Market Maker CAT fee. Each Equity Market Maker’s discounted message traffic count would be calculated by multiplying its message traffic by the NMS Stock trade-to-quote ratio.\footnote{See Proposed CAT Fee Plan Amendment at 21058–59 [sic].}

An Industry Member’s CAT fee also would be subject to a Maximum Industry Member CAT Fee. The Maximum Industry Member CAT Fee would be the fee calculated based on 8% of the total message traffic for all Industry Members. If an Industry Member’s fee is subject to the Maximum Industry Member CAT Fee, any excess amount which the Industry Member would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members (including any Industry Members subject to the Maximum Industry Member CAT Fee and any Industry Members subject to the Minimum Industry Member CAT Fee) in accordance with each Industry Member’s percentage of total message traffic.

To implement the Maximum Industry Member CAT Fee, the Exchange proposes to add proposed paragraph (f) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (f)(1) would state that “[t]he Maximum Industry Member CAT Fee for each quarter is 8% of the total CAT costs for the relevant quarter.” In addition, proposed paragraph (f)(2) would state that:

If an Industry Member’s CAT Fee that is calculated pursuant to paragraph (a)(2), (b)(2), (c)(2), (d)(2), as applicable, without reference to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation, is greater than the Maximum Industry Member CAT Fee, then the Industry Member will be subject to the Maximum Industry Member CAT Fee. If any Industry Member is subject to the Maximum Industry Member CAT Fee, then any excess amount which the Industry Member otherwise would have paid as a fee above such Maximum Industry Member CAT Fee will be re-allocated among all Industry Members over the amount they otherwise would have paid as a result of their message traffic calculation would be discounted from all Industry Members other than those that were subject to a Minimum Industry Member CAT Fee in accordance with their message traffic percentage (“Maximum Industry Member CAT Fee Re-Allocation”).” In addition, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) of the fee schedule describes the Minimum Industry Member CAT Fee Re-Allocation for each of the four Industry Member CAT fees.
Members, including any Industry Member that is subject to the Maximum Industry Member CAT Fee or subject to the Minimum Industry Member CAT Fee in accordance with their message traffic percentage ("Maximum Industry Member CAT Fee Re-Allocation").

Furthermore, proposed paragraphs (a)(1), (b)(1), (c)(1) and (d)(1) would state that an Industry Member’s CAT fee calculated pursuant to (a)(1), (b)(1), (c)(1) and (d)(1) would include any applicable Maximum Industry Member CAT Fee Re-Allocation. Finally, proposed paragraphs (a)(2), (b)(2), (c)(2) and (d)(2) would state that an Industry Member’s CAT fee calculated pursuant to paragraph (a)(2), (b)(2), (c)(2) or (d)(2) is subject to the Maximum Industry Member CAT Fee and the Maximum Industry Member CAT Fee Re-Allocation.

(G) Total CAT Costs

As set out in the Proposed CAT Fee Plan Amendment, the Total CAT Costs for the year would be comprised of all fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during this period. 34

For purposes of the Historical CAT Assessment, the Total CAT Costs would be $193,273,342, as set forth in the Proposed CAT Fee Plan Amendment. Accordingly, the quarterly CAT fee for the Historical CAT Assessment will be calculated based on costs of $36,238,752, which is 1/4th of 75% of the Total CAT Costs. This amount is set forth in proposed paragraph (b)(2) of the fee schedule.

In addition, proposed paragraph (i) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule describes the Total CAT Costs to be used in calculating the Period 3 CAT Fee, the Period 4 CAT Fee and the Quarterly CAT Fees. Proposed paragraph (i)(1) of the fee schedule would state that “[t]he Period 3 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2021.” Proposed paragraph (i)(2) of the fee schedule would state that “[t]he Period 4 CAT Costs shall be the total CAT costs set forth in the year-end financial statements of the Consolidated Audit Trail, LLC for 2022.” Proposed paragraph (i)(3) of the fee schedule would state the following with regard to the Quarterly CAT Fees:

For purposes of the Quarterly CAT Fee, the budgeted Total CAT Costs for the relevant year shall be the total CAT costs set forth in the annual operating budget approved by the Operating Committee pursuant to Section 11.1(a) of the CAT NMS Plan for the relevant year. The budgeted Total CAT Costs for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted budgeted costs for the CAT will be used in calculating the remaining CAT fees for that year.

(2) Proposed CAT Fees

The Exchange proposes to charge its Industry Members fees related to CAT costs. To implement these CAT fees, the Exchange proposes to add a section entitled “Consolidated Audit Trail Funding Fees” to its fee schedule, and to describe the CAT fees in that section.

(A) Historical CAT Assessment (for Pre-Period 1, Period 1 and Period 2)

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee determined to charge Industry Members a historical assessment (“Historical CAT Assessment”) to recover certain CAT costs incurred prior to January 1, 2021 (“Historical CAT Assessment Costs”). 35 Specifically, as detailed in the Proposed CAT Fee Plan Amendment, the Historical CAT Assessment is intended to collect from Industry Members 75% of certain costs incurred through June 22, 2020, the effective date for the Financial Accountability Milestones, 36 certain costs from Period 1 of the Financial Accountability Milestones (which covered the period from June 22, 2020–July 31, 2020) and certain costs from Period 2 of the Financial Accountability Milestones (which covered the period from August 1, 2020–December 31, 2020). The Total CAT Costs, excluding Excluded Costs (as defined below) and certain costs related to the conclusion of the relationship with Thesys CAT, LLC is $193,273,342. The Historical CAT Assessment is designed to recover 75% of these CAT costs. Accordingly, the Historical CAT Assessment Costs would be $144,955,006. Using costs for the Historical CAT Assessment Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Historical CAT Assessment owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover the Historical CAT Assessment Costs over a period of four calendar quarters, commencing upon the SEC’s approval of the Historical CAT Assessment. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic (subject to the market making discounts and the maximum fee). The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by $36,238,752, which is 1/4th of the Historical CAT Assessment Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation, and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic fee would be calculated using CAT Data from the prior quarter. Industry Members would be required to commence paying the Historical CAT Assessment in the first quarter after SEC approval of the Historical CAT Assessment, based on CAT Data from the quarter in which the SEC approved the CAT fees.

To implement the Historical CAT Assessment, the Exchange proposes to add proposed paragraph (b) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (b) would state that “each Industry Member shall pay an Historical CAT Assessment in the amount of the greater of the following for each quarter commencing upon approval of the Historical CAT Assessment by the SEC: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by $36,238,752 (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).” In accordance with Section 11.6(b) of the CAT NMS Plan and as provided in the Proposed CAT Fee Plan

34 See Proposed CAT Fee Plan Amendment at 21064–65.

35 See Proposed CAT Fee Plan Amendment at 21064–65.

36 See Section 11.6 of the CAT NMS Plan; and Financial Accountability Release.
Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 1. Period 1 began on June 22, 2020, the effective date of Section 11.6 of the CAT NMS Plan, and concluded on July 31, 2020, the date of Initial Industry Member Core Equity and Options Reporting. As indicated by the Participants’ Quarterly Progress Report, the Initial Industry Member Core Equity and Option Reporting was completed on schedule by July 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from June 22, 2020 through July 31, 2020.

As provided in the Proposed CAT Fee Plan Amendment, the proposed Historical CAT Assessment seeks to recover costs that are related to Post-Amendment Expenses incurred during Period 2. Period 2 began on August 1, 2020, and concluded on December 31, 2020, the date of the Full Implementation of Core Equity Reporting. As indicated by the Participants’ Quarterly Progress Report, Full Implementation of Core Equity Reporting was completed on schedule by December 31, 2020. As discussed above, the Historical CAT Assessment Costs to be recovered via the Historical CAT Assessment would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and operation of the CAT during the period from August 1, 2020 through December 31, 2020.

Accordingly, proposed paragraph (b) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Historical CAT Assessment “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Historical CAT Assessment:

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>$36,238,752</td>
<td>Quarter of SEC approval of Historical CAT Assessment</td>
<td>1st quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>36,238,752</td>
<td>1st quarter after SEC approval of Historical CAT Assessment</td>
<td>2nd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>36,238,752</td>
<td>2nd quarter after SEC approval of Historical CAT Assessment</td>
<td>3rd quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>36,238,752</td>
<td>3rd quarter after SEC approval of Historical CAT Assessment</td>
<td>4th quarter after SEC approval of Industry Member CAT Fees as set forth in the CAT Fee Plan Amendment.</td>
</tr>
</tbody>
</table>

(B) Period 3 CAT Fee

Per the Proposed CAT Fee Plan Amendment, the Operating Committee also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2021 through December 31, 2021, referred to as the Period 3 CAT Fee. The Total CAT Costs incurred from January 1, 2021 through December 31, 2021 (“Period 3 CAT Costs”) will be calculated at the completion of 2021. Specifically, the Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

Using the Period 3 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 3 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 3 CAT Costs over a period of four calendar quarters, commencing in 2022. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 3 CAT Costs traffic (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using CAT Data from the prior quarter.

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2021 the Amount of the greater of the following each quarter for four quarters commencing in the second quarter of 2022: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic.

---


39 See Proposed CAT Fee Plan Amendment at 21065–66.
based on the prior quarter’s message traffic by 1/4th of 75% of the Period 3 Total CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation)."

Per the Proposed CAT Fee Plan Amendment, the proposed Period 3 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 3. Period 3 CAT Costs will be the total actual costs incurred for the Company.

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Members also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 ("Period 4 CAT Costs") will be calculated at the completion of 2022.

Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2021 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee was calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and

<table>
<thead>
<tr>
<th>Quarterly CAT fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Costs</td>
<td>Period 3 CAT Costs</td>
<td>CAT Data from first quarter of 2022 ...</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Costs</td>
<td>Period 3 CAT Costs</td>
<td>CAT Data from second quarter of 2022 ...</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Costs</td>
<td>Period 3 CAT Costs</td>
<td>CAT Data from third quarter of 2022 ...</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Costs</td>
<td>Period 3 CAT Costs</td>
<td>CAT Data from fourth quarter of 2022 ...</td>
</tr>
</tbody>
</table>

(C) Period 4 CAT Fee

As set forth in the Proposed CAT Fee Plan Amendment, the Operating Members also determined to charge Industry Members a quarterly fee to recover a percentage of the Total CAT Costs incurred from January 1, 2022 through December 30, 2022, referred to as the Period 4 CAT Fee. The Total CAT Costs incurred from January 1, 2022 through December 30, 2022 ("Period 4 CAT Costs") will be calculated at the completion of 2022.

Specifically, the Period 4 CAT Costs will be the total actual costs incurred for the CAT for 2022 as set forth in the 2021 financial statements of the Company.

Using the Period 4 CAT Costs, as set forth in the Proposed CAT Fee Plan Amendment, the Operating Committee will calculate the Period 4 CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. Per the Proposed CAT Fee Plan Amendment, the Operating Committee plans to recover Period 4 CAT Costs over a period of four calendar quarters, commencing in 2023. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the Period 4 CAT Costs (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).

The Exchange understands that the Operating Committee will announce via a CAT alert after the end of 2022 the Total CAT Costs for 2022 to be used in calculating the quarterly Period 4 CAT Fees. Such Total CAT Costs will be set forth in the year-end financial statements of the Consolidated Audit Trail, LLC. As noted above, such financial statements are required to be prepared in accordance with the requirements set forth in Section 9.2 of the CAT NMS Plan.

The Exchange indicates that the proposed Period 4 CAT Fee seeks to recover costs that will be related to Post-Amendment Expenses incurred during Period 4. Period 4 is expected to begin on January 1, 2022 and conclude on December 30, 2022, the date of Full Implementation of CAT NMS Plan Requirements. As discussed above, the Period 4 CAT Costs to be recovered via the Period 4 CAT Fee would include fees, costs and expenses incurred by or for the Company in connection with the development, implementation and

---

40 The Period 3 CAT Costs will be the total actual costs incurred for the CAT for 2021 as set forth in the 2021 financial statements for the Company.

41 See Proposed CAT Fee Plan Amendment at 21066-67.
operation of the CAT during the period from January 1, 2022 through December 30, 2022. The collection of the full amount of the Period 4 CAT Fee will depend upon achievement of Full Implementation of CAT NMS Plan Requirements by December 30, 2022; if not, the amount of the Period 4 CAT Fee that may be collected from the Industry Members will depend upon the fee limitations set forth in Section 11.6(a)(ii) of the CAT NMS Plan. Accordingly, proposed paragraph (e) of the “Consolidated Audit Trail Funding Fees” section of its fee schedule would state that Industry Members will be required to pay the Period 4 CAT Fee “[s]ubject to the requirements of Section 11.6 of the CAT NMS Plan.”

The following chart summarizes the imposition of the Period 4 CAT Fee:

<table>
<thead>
<tr>
<th>Quarterly CAT Fee</th>
<th>Quarterly industry member allocation</th>
<th>CAT Data used for message traffic calculation</th>
<th>Payment due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarterly CAT Fee #1</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from first quarter of 2023</td>
<td>2nd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #2</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from second quarter of 2023</td>
<td>3rd quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #3</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from third quarter of 2023</td>
<td>4th quarter of 2023.</td>
</tr>
<tr>
<td>Quarterly CAT Fee #4</td>
<td>1/4th of 75% of the Period 4 CAT Costs</td>
<td>CAT Data from fourth quarter of 2023</td>
<td>1st quarter of 2024.</td>
</tr>
</tbody>
</table>

(D) Quarterly CAT Fee—Beginning 2023

As provided in the Proposed CAT Fee Plan Amendment, to recover the costs of the CAT going forward beginning in 2023, the Operating Committee determined to charge Industry Members an ongoing quarterly CAT fee calculated based on the allocation of Total CAT Costs pursuant to the CAT Funding Model (“Quarterly CAT Fee”), 43 The Operating Committee will use the costs set forth in the annual operating budget as the Total CAT Costs in the calculation of the Quarterly CAT Fee. Specifically, the Total CAT Costs budgeted for the upcoming year for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. Using these estimated Total CAT Costs, the Operating Committee will calculate the Quarterly CAT Fee owed by each Industry Member in accordance with the CAT Funding Model. As provided in the Proposed CAT Fee Plan Amendment, the Operating Committee proposes to seek to recover the budgeted Total CAT Costs over the course of the year. Each quarter, each Industry Member will pay the greater of the minimum fee of $125 or the Industry Member’s fee calculated based on message traffic. 44 The message traffic fee would be calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation). Each Industry Member’s message traffic would be calculated using data from the prior calendar quarter. The Exchange proposes to commence charging this CAT fee in the second quarter of 2023, based on CAT Data from the first quarter of 2023.

To implement the Quarterly CAT Fee, the Exchange proposes to add proposed paragraph (a) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule. Proposed paragraph (a) would state that “[e]ach Industry Member shall pay a Quarterly CAT Fee in the amount of the greater of the following each quarter commencing in the second quarter of 2023: (1) Minimum Industry Member CAT Fee (plus any applicable Maximum Industry Member CAT Fee Re-Allocation); or (2) the amount calculated by multiplying the percentage of the Industry Member’s message traffic of the total Industry Member message traffic based on the prior quarter’s message traffic by 1/4th of 75% of the budgeted Total CAT Costs for the relevant year (subject to applicable discounts for Options Market Maker message traffic and Equity Market Maker message traffic, the Maximum Industry Member CAT Fee, the Maximum Industry Member CAT Fee Re-Allocation and the Minimum Industry Member CAT Fee Re-Allocation).”

The Exchange understands the Operating Committee will announce at the beginning of the relevant year via a CAT alert the budgeted Total CAT Costs to be used in calculating the Quarterly CAT Fees for that year. The budgeted Total CAT Costs will be the costs set forth in the annual operating budget for the Company required pursuant to Section 11.1(a) of the CAT NMS Plan. As discussed above, CAT costs would include, but not be limited to, Plan Processor costs, insurance costs, third-party support costs and an operational reserve. As required by Section 11.1(c) of the CAT NMS Plan, any surpluses collected will be treated as an operational reserve to offset future fees and will not be distributed to the Participants as profits. 45 In addition, to address potential changes in the budget during the year, the total budgeted costs for the CAT for the relevant year may be adjusted on a quarterly basis as the Operating Committee reasonably deems appropriate for the prudent operation of the Company. To the extent that the Operating Committee adjusts the total budgeted costs for the CAT for the relevant year during its quarterly budget review, the adjusted total budgeted costs for the CAT will be used in calculating the remaining quarterly CAT fees for that year.

The following chart summarizes the imposition of the Quarterly CAT Fee each year commencing in 2023 and continuing each year thereafter:

43 See Proposed CAT Fee Plan Amendment at 21067–68.
44 To the extent that any two or more of the four categories of Industry Member CAT fees (i.e., the Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and the Quarterly CAT Fee) are due during the same quarter, any Industry Member obligated to pay one or more categories of fees is required to pay each category of fee for that quarter. For example, if an Industry Member would be subject to the Minimum Industry Member CAT Fee for the Period 4 CAT Fee and the Minimum Industry Member CAT Fee for the Quarterly CAT Fee during the same quarter, the Industry Member would be required to pay two minimum $125 fees that quarter for a total of $250. As another example, suppose that an Industry Member owed a CAT fee (other than the minimum fee of $125) for both the Historical CAT Assessment and the Period 3 CAT Fee, the Industry Member would be required to pay both fees that quarter. See Proposed CAT Fee Plan Amendment at 21067.
45 CAT NMS Plan Approval Order at 84792.
(3) Time and Manner of Payment

The Exchange proposes to add paragraph (e) to the “Consolidated Audit Trail Funding Fees” section of its fee schedule to describe the time and manner of the payment of the Industry Member CAT fees as provided in the Proposed CAT Fee Plan Amendment. Proposed paragraph (e)(1) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with an invoice setting forth the Industry Member’s Historical CAT Assessment, Period 3 CAT Fee, Period 4 CAT Fee and/or Quarterly CAT Fee (as applicable) (collectively, “CAT Fees”) for each payment period.” Proposed paragraph (e)(2) would state that “Consolidated Audit Trail, LLC will provide each Industry Member with one invoice each payment period for its CAT Fees as determined pursuant to paragraph (a)–(d) above, regardless of whether the Industry Member is a member of multiple self-regulatory organizations.” Proposed paragraph (e)(3) would state that “[e]ach Industry Member will pay its CAT Fees to the Consolidated Audit Trail, LLC via the centralized system for the collection of CAT Fees established by the Consolidated Audit Trail, LLC in the manner prescribed by the Consolidated Audit Trail, LLC.” Finally, proposed paragraph (e)(4) would require that Industry Members pay their CAT Fees within thirty days after receipt of an invoice or other notice indicating payment is due (unless a longer payment period is otherwise indicated). If an Industry Member fails to pay any such fee when due, such Industry Member shall pay interest on the outstanding balance from such due date until such fee is paid at a per annum rate equal to the lesser of (i) the Prime Rate plus 300 basis points, or (ii) the maximum rate permitted by applicable law. 47

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the requirements of the Exchange Act. The Exchange believes that the proposed rule change is consistent with Section 6(b)(5) of the Act, 48 which requires, among other things, that the Exchange’s rules must be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, and, in general, to protect investors and the public interest, and not designed to permit unfair discrimination between customers, issuers, brokers and dealers. The Exchange also believes that the proposed rule change is consistent with the provisions of Section 6(b)(4) of the Act, 49 because it provides for the equitable allocation of reasonable dues, fees and other charges among members and issuers and other persons using its facilities. The Exchange further believes that the proposed rule change is consistent with Section 6(b)(8) of the Act 50 which requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange further notes that, as provided in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed Industry Member CAT fees comply with the requirements of the Exchange Act and the CAT NMS Plan. 51 The Operating Committee determined that the Industry Member CAT fees provide for the “equitable allocation of reasonable dues, fees, and other charges among its members and issuers and other persons using its facilities necessary or appropriate in furtherance of the purposes of this chapter,” 52 as required by the Exchange Act. The Operating Committee determined that the CAT fees equitably allocate CAT costs between Participants and Industry Members, and among Industry

47 CAT Reporters will be responsible for each quarterly fee in which they are a CAT Reporter. If a CAT Reporter ceases to meet the definition of a CAT Reporter during a quarter, the CAT Reporter will still be responsible for CAT fees attributable to its message traffic (or, the minimum fee in the alternative) during that quarter. See Proposed CAT Fee Plan Amendment at 21066.
51 CAT NMS Plan Approval Order at 84696.
52 See Proposed CAT Fee Plan Amendment at 21068–70.
53 Sections 6(b)(4) and 15A(b)(5) of the Exchange Act.
Members, as discussed in detailed [sic] above. For the reasons discussed above, the Operating Committee determined that the 75%-25% allocation between Industry Members and Participants in the CAT Funding Model as well as the use of message traffic for allocating costs among Industry Members provide for an equitable allocation of CAT costs among CAT Reporters. In addition, as discussed above, the Operating Committee determined that the imposition of minimum and maximum fees and market maker discounts would operate to provide for an equitable allocation of CAT costs among Industry Members.

As further provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also determined that the CAT Funding Model is “not designed to permit unfair discrimination between customers, issuers, brokers, or dealers.” 54 as required by the Exchange Act, as the CAT Funding Model does not unfairly discriminate between Industry Members and Participants, or among Industry Members. In making this determination, the Operating Committee noted that all Industry Members are grouped together for the purpose of determining CAT fees, and Industry Members with similar levels of activity would pay similar fees. For example, Industry Members with higher levels of message traffic would pay higher fees, and those with lower levels of message traffic would pay lower fees. With the elimination of tiers in the Original Funding Model, fees for Industry Members are directly related to their message traffic. With tiers, the relationship between message traffic and the CAT fee would not have been direct.

In addition, as discussed in the Proposed CAT Fee Plan Amendment, where the method of fee calculation may potentially affect certain groups of CAT Reporters adversely, the Operating Committee sought to limit such adverse effects. For example, the Operating Committee proposed market maker discounts to address the high levels of message traffic generally exhibited by market makers. As discussed above, the SEC has recognized repeatedly that such favorable treatment for market makers in other contexts was not unfairly discriminatory or a burden on competition in light of its positive effects on market quality, nor was it considered to involve an inequitable allocation of fees among members.

As also provided in the Proposed CAT Fee Plan Amendment, the Operating Committee also proposed the Maximum Industry Member CAT Fee to address the potential for significant fees based on outsized message traffic for certain Industry Members. The Maximum Industry Member CAT Fee would serve as a method to institute a cap on fees to fairly allocate costs to Industry Members. Such a fee would prevent Industry Members from paying significantly larger CAT fees than Participant complexes.

The Proposed CAT Fee Plan Amendment notes that Operating Committee also determined that the proposed Industry Member CAT fees would promote just and equitable principles of trade, and, in general, protect investors and the public interest, as the fees would be transparent and relate specifically to CAT activity. The Operating Committee also determined that the proposed fees were reasonable because they would provide ease of calculation, ease of billing and other administrative functions. Such factors are crucial to estimating a reliable revenue stream for the Company.

B. Self-Regulatory Organization’s Statement on Burden on Competition

Section 6(b)(8) of the Act 55 requires that the Exchange’s rules not impose any burden on competition that is not necessary or appropriate in furtherance of the purpose of the Exchange Act. The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange notes that the proposed rule change implements provisions of the CAT NMS Plan that are subject to approval by the Commission and is designed to assist the Exchange in meeting its regulatory obligations pursuant to the Plan. The Exchange also notes that the proposed rule changes will apply equally to all Industry Members, including its BX members. In addition, all national securities exchanges and FINRA are proposing a similar proposed fee change to implement the requirements of the CAT NMS Plan. Therefore, this is not a competitive fee filing, and, therefore, it does not raise competition issues between and among the exchanges and FINRA.

Moreover, the Exchange notes that, as discussed in the Proposed CAT Fee Plan Amendment, the Operating Committee determined that the proposed fees do not impose an unnecessary or inappropriate burden on competition as they fairly and equitably allocate costs among CAT Reporters. 56 The Operating Committee determined that the cost allocation between Participants and Industry Members recognizes the greater number of Industry Members as compared to the Participants and the greater collective revenue of Industry Members as compared to Participants. In addition, cost allocations among Industry Members based on message traffic fairly and equitably distribute CAT costs. Furthermore, the market maker discounts and the Maximum Industry Member CAT Fee address the potential for burdens on market makers and Industry Members with outsized message traffic potentially resulting from the proposed fee calculations. Moreover, the Operating Committee determined that the Minimum Industry Member CAT Fee would not act as a barrier to entry for smaller Industry Member CAT Reporters.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act. 57

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) Necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or

54 Section 6(b)(5) and 15A(b)(6) of the Exchange Act.


56 See Proposed CAT Fee Plan Amendment at 21070.

• Send an email to rule-comments@sec.gov. Please include File Number SR–BX–2021–018 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090.

All submissions should refer to File Number SR–BX–2021–018. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–BX–2021–018 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.58

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09777 Filed 5–7–21; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; The Nasdaq Stock Market LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Extend the Expiration Date of the Temporary Amendments Concerning Video Conference Hearings

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 28, 2021, The Nasdaq Stock Market LLC (“Nasdaq” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Exchange has designated the proposed rule change as constituting a “non-controversial” rule change under paragraph (f)(6) of Rule 19b–4 under the Act,3 which renders the proposal effective upon receipt of this filing by the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to extend the expiration date of the temporary amendments in SR–NASDAQ–2020–076 from April 30, 2021, to August 31, 2021.4 The proposed rule change would not make any changes to the text of the Exchange rules.


II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to continue to harmonize Exchange Rules 1015, 9261, 9524 and 9830 with recent changes by the Financial Industry Regulatory Authority, Inc. (“FINRA”)5 to its Rules 1015, 9261, 9524 and 9830 in response to the COVID–19 global health crisis and the corresponding need to restrict in-person activities. The Exchange originally filed proposed rule change SR–NASDAQ–2020–076, which allows the Exchange’s Office of Hearing Officers (“OHO”) and the Exchange Review Council (“ERC”) to conduct hearings, on a temporary basis, by video conference, if warranted by the current COVID–19-related public health risks posed by an in-person hearing. In December 2020, the Exchange filed a proposed rule change, SR–NASDAQ–2020–092, to extend the expiration date of the temporary amendments in SR–NASDAQ–2020–076 from December 31, 2020, to April 30, 2021.5 While there are signs of improvement, the COVID–19 conditions necessitating these temporary amendments persist and, based on its assessment of current COVID–19 conditions and the lack of certainty as to when COVID–19–related health concerns and corresponding restrictions will meaningfully subside, the Exchange has determined that there is a continued need for this temporary relief for several months beyond April 30, 2021. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments in SR–NASDAQ–2020–076 from April 30, 2021, to August 31, 2021.

On November 5, 2020, the Exchange filed, and subsequently extended to


April 30, 2021, SR–NASDAQ–2020–076, to temporarily amend Exchange Rules 1015, 9261, 9524 and 9830 to grant OHO and the ERC authority to conduct hearings in connection with appeals of Membership Application Program decisions, disciplinary actions, eligibility proceedings and temporary and permanent cease and desist orders by video conference, if warranted by the COVID–19-related public health risks posed by an in-person hearing. As set forth in the previous filings, the Exchange also relies on COVID–19 data and the guidance issued by public health authorities to determine whether the current public health risks presented by an in-person hearing may warrant a hearing by video conference. Based on that data and guidance, the Exchange does not believe the COVID–19-related health concerns necessitating this relief will meaningfully subside by April 30, 2021, and has determined that there will be a continued need for this temporary relief for several months beyond that date. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments originally set forth in SR–NASDAQ–2020–076 from April 30, 2021, to August 31, 2021. The extension of these temporary amendments allowing for specified OHO and ERC hearings to proceed by video conference will allow the Exchange’s critical adjudicatory functions to continue to operate effectively in these extraordinary circumstances—enabling the Exchange to fulfill its statutory obligations to protect investors and maintain fair and orderly markets—while also protecting the health and safety of hearing participants.

The Exchange has filed the proposed rule change for immediate effectiveness and has requested that the SEC waive the requirement that the proposed rule change not become operative for 30 days after the date of the filing, so the Exchange can implement the proposed rule change immediately.

2. Statutory Basis

The Exchange believes that its proposal is consistent with Section 6(b) of the Act, in general, and furthers the objectives of Section 6(b)(5) of the Act, in particular, that it is designed to promote just and equitable principles of trade, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general to protect investors and the public interest, by continuing to provide greater harmonization between the Exchange rules and FINRA rules of similar purpose, resulting in less burdensome and more efficient regulatory compliance.

The proposed rule change, which extends the expiration date of the temporary amendments to the Exchange rules set forth in SR–NASDAQ–2020–076, will continue to aid the Exchange’s efforts to timely conduct hearings in connection with its core adjudicatory functions. Given current COVID–19 conditions and the uncertainty around when those conditions will meaningfully improve, without this relief allowing OHO and ERC hearings to continue to proceed by video conference, such hearings may need to be postponed indefinitely. The Exchange must be able to perform its critical adjudicatory functions in order to fulfill its statutory obligations to protect investors and maintain fair and orderly markets. As such, this relief is essential to the Exchange’s ability to fulfill its statutory obligations and allows hearing participants to avoid the serious COVID–19-related health and safety risks associated with in-person hearings. Among other things, this relief will allow OHO to conduct temporary cease and desist proceedings by video conference so that the Exchange can take immediate action to stop ongoing customer harm and will allow the ERC to timely provide members, disqualified individuals and other applicants an approval or denial of their applications.

The Exchange does not believe that extending this temporary relief is not necessary or appropriate in furtherance of the purposes of the Act. As set forth in SR–NASDAQ–2020–076, the proposed rule change is intended solely to extend temporary relief necessitated by the continued impacts of the COVID–19 outbreak and the related health and safety risks of conducting in-person activities. The Exchange believes that the proposed rule change will prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act and subparagraph (f)(6) of Rule 19b–4 thereunder.

A proposed rule change filed under Rule 19b–4(f)(6) normally does not become operative prior to 30 days after the date of the filing. However, pursuant to Rule 19b–4(f)(6)(iii), the Commission may designate a shorter time if such action is consistent with the protection of investors and the public interest. The Exchange has asked the Commission...
Commission to waive the 30-day operative delay so that the proposal may become operative immediately upon filing. The Exchange has indicated that the proposed rule change to extend the expiration date will continue to prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021. Importantly, extending the relief previously provided in NASDAQ–2020–092 immediately upon filing and without a 30-day operative delay will allow the Exchange to continue critical adjudicatory and review processes in a reasonable and fair manner and meet its critical investor protection goals, while also following best practices with respect to the health and safety of its employees.

The Commission also notes that this proposal extends without change the temporary relief previously provided by NASDAQ–2020–092, and only during the period in which the Exchange’s operations are impacted by COVID–19. As proposed, the changes would be in place through August 31, 2021 and the period in which the Exchange’s operations are impacted by COVID–19. As proposed, the changes would be in place through August 31, 2021 and the amended rules will revert back to their original state at the conclusion of the temporary relief period and, if applicable, any extension thereof. For these reasons, the Commission believes that waiver of the 30-day operative delay for this proposal is consistent with the protection of investors and the public interest. Accordingly, the Commission hereby waives the 30-day operative delay and designates the proposal operative upon filing.

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–NASDAQ–2021–033 on the subject line.

Paper Comments
• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1900.

All submissions should refer to File Number SR–NASDAQ–2021–033. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change; the Commission does not edit personal identifying information from submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–NASDAQ–2021–033 and should be submitted on or before June 1, 2021.

The Exchange proposes to extend the expiration date of the temporary amendments in SR–MRX–2020–23 from April 30, 2021, to August 31, 2021. The proposed rule change would not make any changes to the text of the Exchange rules. The text of the proposed rule change is available on the Exchange’s website at

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.21

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09770 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations: Nasdaq MRX, LLC; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Extend the Expiration Date of the Temporary Amendments Concerning Video Conference Hearings

May 4, 2021.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on April 28, 2021, Nasdaq MRX, LLC (“MRX” or “Exchange”) filed with the Securities and Exchange Commission (“SEC” or “Commission”) the proposed rule change as described in Items I and II below, which Items have been substantially prepared by the Exchange. The Exchange has designated the proposed rule change as constituting a “non-controversial” rule change under paragraph (f)(6) of Rule 19b–4 under the Act,3 which renders the proposal effective upon receipt of this filing by the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to extend the expiration date of the temporary amendments in SR–MRX–2020–23 from April 30, 2021, to August 31, 2021.4 The proposed rule change would not make any changes to the text of the Exchange rules.

The text of the proposed rule change is available on the Exchange’s website at


4 See Securities Exchange Act Release No. 90757 (Dec. 21, 2020), 85 FR 85771 (Dec. 29, 2020) [SR–MRX–2020–23]. If the Exchange seeks to provide additional temporary relief from the rule requirements identified in this proposed rule change beyond August 31, 2021, the Exchange will submit a separate rule filing to further extend the temporary extension of time. The amended Exchange rules will revert to their original form at the conclusion of the temporary relief period and any extension thereof.
II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to continue to harmonize Exchange Rule General 3, Section 2 with recent changes by the Financial Industry Regulatory Authority, Inc. ("FINRA") to its Rule 1015 in response to the COVID–19 global health crisis and the corresponding need to restrict in-person activities.5 The Exchange originally filed proposed rule change SR–MRX–2020–23, which allows the Exchange Review Council ("ERC") to conduct hearings in connection with appeals of Membership Application Program decisions, on a temporary basis, by video conference, if warranted by the current COVID–19-related public health risks posed by an in-person hearing. While there are signs of improvement, the COVID–19 conditions necessitating the temporary amendments persist and, based on its assessment of current COVID–19 conditions and the lack of certainty as to when COVID–19-related health concerns and corresponding restrictions will meaningfully subside, the Exchange has determined that there is a continued need for this temporary relief for several months beyond April 30, 2021. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments in SR–MRX–2020–23 from April 30, 2021, to August 31, 2021.

As set forth in SR–MRX–2020–23, the Exchange also relies on COVID–19 data and criteria to determine whether the current public health risks presented by an in-person hearing may warrant a hearing by video conference. Based on that data and criteria, the Exchange does not believe the COVID–19-related health concerns necessitating this relief will meaningfully subside by April 30, 2021, and has determined that there will be a continued need for this temporary relief for several months beyond that date. Accordingly, the Exchange proposes to extend the expiration date of the temporary rule amendments originally set forth in SR–MRX–2020–23 from April 30, 2021, to August 31, 2021. The extension of the temporary amendments allowing for specified ERC hearings to proceed by video conference will allow the Exchange’s critical adjudicatory functions to continue to operate effectively in these extraordinary circumstances—enabling the Exchange to fulfill its statutory obligations to protect investors and maintain fair and orderly markets—while also protecting the health and safety of hearing participants.

The Exchange has filed the proposed rule change for immediate effectiveness and has requested that the SEC waive the requirement that the proposed rule change not become operative for 30 days after the date of the filing, so the Exchange can implement the proposed rule change immediately.

2. Statutory Basis

The Exchange believes that its proposal is consistent with Section 6(b) of the Act,6 in general, and further the objectives of Section 6(b)(5) of the Act,7 in particular, that in it is designed to promote just and equitable principles of trade, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general to protect investors and the public interest, by providing greater harmonization between the Exchange rules and FINRA rules of similar purpose, resulting in less burdensome and more efficient regulatory compliance.8 The proposed rule change, which extends the expiration date of the temporary amendments to the Exchange rules set forth in SR–MRX–2020–23, will continue to aid the Exchange’s efforts to timely conduct hearings in connection with its core adjudicatory functions. Given current COVID–19 conditions and the uncertainty around when those conditions will meaningfully improve, without this relief allowing ERC hearings to continue to proceed by video conference, such hearings may need to be postponed indefinitely. The Exchange must be able to perform its critical adjudicatory functions in order to fulfill its statutory obligations to protect investors and maintain fair and orderly markets. As such, this relief is essential to the Exchange’s ability to fulfill its statutory obligations and allows hearing participants to avoid the serious COVID–19-related health and safety risks associated with in-person hearings.

Among other things, this relief will allow the ERC to timely provide members, disqualified individuals and other applicants an approval or denial of their applications. As set forth in detail in SR–MRX–2020–23, this temporary relief allowing ERC hearings to proceed by video conference accounts for fair process considerations and will continue to provide fair process while avoiding the COVID–19-related public health risks for hearing participants. Accordingly, the proposed rule change extending this temporary relief is in the public interest and consistent with the Act’s purpose.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the temporary proposed rule change will impose any burden on competition not necessary or appropriate in furtherance of the purposes of the Act. As set forth in SR–MRX–2020–23, the proposed rule change is intended solely to extend temporary relief necessitated by the continued impacts of the COVID–19 outbreak and the related health and safety risks of conducting in-person activities. The Exchange believes that the proposed rule change will prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.
III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act and subparagraph (f)(6) of Rule 19b–4 thereunder.10

A proposed rule change filed under Rule 19b–4(f)(6) normally does not become operative prior to 30 days after the date of the filing. However, pursuant to Rule 19b–4(f)(6)(iii),12 the Commission may designate a shorter time if such action is consistent with the protection of investors and the public interest. The Exchange has asked the Commission to waive the 30-day operative delay so that the proposal may become operative immediately upon filing. The Exchange has indicated that the proposed rule change to extend the expiration date will continue to prevent unnecessary impediments to its operations, including its critical adjudicatory processes, and its ability to fulfill its statutory obligations to protect investors and maintain fair and orderly markets that would otherwise result if the temporary amendments were to expire on April 30, 2021.13 Importantly, extending the relief provided in MRX–2020–23 immediately upon filing and without a 30-day operative delay will allow the Exchange to continue critical adjudicatory and review processes in a reasonable and fair manner and meet its critical investor protection goals, while also following best practices with respect to the health and safety of its employees.14 The Commission also notes that this proposal extends without change the temporary relief previously provided by MRX–2020–23,15 and only during the period in which the Exchange’s operations are impacted by COVID–19. As proposed, the changes would be in place through August 31, 2021 and the amended rules will revert back to their original state at the conclusion of the temporary relief period and, if applicable, any extension thereof.16 For these reasons, the Commission believes that waiver of the 30-day operative delay for this proposal is consistent with the protection of investors and the public interest. Accordingly, the Commission hereby waives the 30-day operative delay and designates the proposed operative upon filing.17

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments
• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–MRX–2021–06 on the subject line.

Paper Comments
• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090. All submissions should refer to File Number SR–MRX–2021–06. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. All comments received will be posted without change; the Commission does not edit personal identifying information from submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–MRX–2021–06 and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.18
J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09772 Filed 5–7–21; 8:45 am]

BILLING CODE 8011–01–P

SMALL BUSINESS ADMINISTRATION

[Presidential Action 2021–06 and 09–140135]

President Declaition for a Major Disaster for Public Assistance Only for the State of Mississippi

AGENCY: U.S. Small Business Administration.

ACTION: Notice.

SUMMARY: This is a Notice of the Presidential declaration of a major disaster for Public Assistance Only for the State of MISSISSIPPI (FEMA–4598–DR), dated 05/04/2021. Incident: Severe Winter Storms. Incident Period: 02/11/2021 through 02/19/2021.

DATES: Issued on 05/04/2021. Physical Loan Application Deadline Date: 07/06/2021. Economic Injury (EIDL) Loan Application Deadline Date: 02/04/2022.

ADDRESSES: Submit completed loan applications to: U.S. Small Business Administration.
The number assigned to this disaster for physical damage is 16955 7 and for economic injury is 16956 0. (Catalog of Federal Domestic Assistance Number 59008)

James Rivera,
Associate Administrator for Disaster Assistance.

[FR Doc. 2021–09857 Filed 5–7–21; 8:45 am]
BILLING CODE 8026–03–P

SMALL BUSINESS ADMINISTRATION
[Disaster Declaration #16957 and #16958; OREGON Disaster Number OR–00119]

Presidential Declaration of a Major Disaster for Public Assistance Only for the State of Oregon

AGENCY: U.S. Small Business Administration.

ACTION: Notice.

SUMMARY: This is a Notice of the Presidential declaration of a major disaster for Public Assistance Only for the State of Oregon (FEMA–4599–DR), dated 05/04/2021.

Incident: Severe Winter Storm.

Incident Period: 02/11/2021 through 02/15/2021.

DATES: Issued on 05/04/2021.

Physical Loan Application Deadline Date: 07/06/2021.

Economic Injury (EIDL) Loan Application Deadline Date: 02/04/2022.

ADDRESSES: Submit completed loan applications to: U.S. Small Business Administration, Processing and Disbursement Center, 14925 Kingsport Road, Fort Worth, TX 76155.


SUPPLEMENTARY INFORMATION: Notice is hereby given that as a result of the President’s major disaster declaration on 05/04/2021, Private Non-Profit organizations that provide essential services of a governmental nature may file disaster loan applications at the address listed above or other locally announced locations.

The following areas have been determined to be adversely affected by the disaster:


The number assigned to this disaster for physical damage is 16955 7 and for economic injury is 16956 0. (Catalog of Federal Domestic Assistance Number 59008)

James Rivera,
Associate Administrator for Disaster Assistance.

[FR Doc. 2021–09857 Filed 5–7–21; 8:45 am]
BILLING CODE 8026–03–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

Notice of Funding Opportunity for Environmental Mitigation Pilot Program

AGENCY: Federal Aviation Administration, DOT.

ACTION: Notice of funding opportunity.

SUMMARY: Section 190 of the FAA Reauthorization Act of 2018 authorizes the Federal Aviation Administration (FAA) to carry out an Airport Environmental Mitigation Pilot Program. This program provides grants to sponsors of public-use airports. The pilot program is open to environmental mitigation projects that will measurably reduce or mitigate aviation impacts on noise, air quality, or water quality at the airport or within five miles of the airport. FAA may fund up to six projects at public-use airports. The purpose of this notice is to solicit pre-applications from eligible airports and consortia.

DATES: Pre-applications must be submitted by 5:00 p.m. EST on July 9, 2021.

ADDRESSES: You can obtain an electronic copy of this Policy and all other documents in this docket using the internet by:

(1) Searching the Federal eRulemaking portal (http://www.faa.gov/regulations/search);

(2) Visiting FAA’s Regulations and Policies web page at (http://www.faa.gov/regulations_policies); or


You can also obtain a copy by sending a request to FAA, Airport Planning and Environmental Division, 800 Independence Ave. SW, Washington, DC 20591, or by calling (202) 267–3263. Make sure to identify the docket number, notice number or amendment number of this proceeding.

FOR FURTHER INFORMATION CONTACT: Ms. Jaclyn M. Johnson, Environmental Protection Specialist, Federal Aviation Administration, 800 Independence Avenue, Washington, DC 20591; email jaclyn.johnson@faa.gov, phone 202– 267–9596.

SUPPLEMENTARY INFORMATION: Each section of this notice contains information and instructions relevant to the pre-application process for these environmental mitigation pilot program grants. Applicants should read this notice in its entirety so that they have the information they need to submit eligible and competitive applications.
A. Program Description
Section 190 of the FAA Reauthorization Act of 2018 (Pub. L. 115–254) creates a pilot program for environmental mitigation projects. The environmental mitigation projects should introduce new environmental mitigation techniques or technologies that have been proven in laboratory demonstrations. These projects should propose methods for efficient adaptation or integration of new concepts into airport operations. In addition, these projects must measurably reduce or mitigate aviation impacts on noise, air quality, or water quality at the airport or within five miles of the airport, and demonstrate whether new techniques or new technologies are practical to implement at or near public-use airports.

FAA may establish and publish information identifying best practices for reducing or mitigating aviation impacts on noise, air quality, and water quality at airports or in the vicinity of airports based on the projects carried out under the program. The program shall terminate five years after FAA makes the first grant under the program.

B. Federal Award Information
Per Section 190(a), FAA may fund up to six projects at public use airports. Per Section 190(k), additional projects may be carried out at a site previously, but not currently, managed by the Department of Defense (DOD) if the DOD provides funds to the FAA for funding such projects.

FAA may make grants from the Airport Improvement Program’s noise and environmental set-aside (49 U.S.C. 47117(o)(1)(A)). Each project is limited to not more than $2,500,000 in federal funding. The federal share of the cost of the project carried out under the program is 50 percent, and requires 50 percent in airport matching funds.

C. Eligibility Information
The law specifies that projects must be carried out by an eligible consortium consisting of two or more of the following entities:
- Businesses incorporated in the U.S.
- Public or private educational or research organizations located in the U.S.
- Entities of state or local governments in the U.S.
- Federal laboratories.
- Research organizations located in the following entities:
  - Consisting of two or more of the
     - DOD provides funds to the FAA for funding such projects.
     - FAA may establish and publish information identifying best practices for reducing or mitigating aviation impacts on noise, air quality, or water quality at the airport or within five miles of the airport, and demonstrate whether new techniques or new technologies are practical to implement at or near public-use airports.

FAA may make grants from the Airport Improvement Program’s noise and environmental set-aside (49 U.S.C. 47117(o)(1)(A)). Each project is limited to not more than $2,500,000 in federal funding. The federal share of the cost of the project carried out under the program is 50 percent, and requires 50 percent in airport matching funds.

D. Pre-Application and Submission Information
Airport Sponsors should submit a pre-application to their local FAA Airports District Office that includes a project title and location, and identifies the entities that will carry out the project. The pre-application should include a description of the roles and responsibilities of each entity and must be signed by each entity. The pre-application should also include a project description that discusses the project and anticipated benefits, the roles and responsibilities of each entity involved in the program, and how the project meets the program’s goals of funding mitigation that is not widely available at airports; and could introduce a novel, applicable mitigation opportunity for airport development operations.

The pre-application should also describe how environmental benefits will be measured and include a draft scope of work that describes how the entity will implement the environmental mitigation project. In addition, the pre-application should include a schedule for completion of the project within 24 months of grant award and feature quarterly reporting to the airport sponsor’s Regional or Airport District Office. Last, the pre-application should include a preliminary SF–424, with estimated project cost broken out by federal and local share.

In short, the pre-application should include the information necessary for FAA to determine that the project satisfies project requirements as described in Section A and C and to assess the selection criteria specified in Section E. The pre-application should be prepared with standard formatting preferences including a single-spaced document, using standard 12-point font such as Times New Roman, with 1-inch margins. The pre-application may not exceed 25 pages in length, including any attachments or appendices. If the pre-application includes information the applicant considers to be trade secret or confidential commercial or financial information, the applicant should note on the front cover that the submission “Contains Confidential Business Information” and mark each affected page. DOT protects such information from disclosure to the extent allowed under applicable law.

Pre-applications should be submitted by the airport sponsor, not the consortium, to the sponsor’s local Regional or Airports District Office. A listing of FAA Regional Airports Divisions and Airports District Offices by State is located at https://www.faa.gov/about/office_org/headquarters_offices/arp/regional_offices/. Any questions on the program and pre-application materials should also be directed to the Regional or Airports District Office.

E. Pre-Application Review Information
FAA will give priority consideration to projects that will achieve the greatest reductions in aircraft noise, airport emissions, or airport water quality impacts either on an absolute basis or on a per dollar of funds expended basis, and will be implemented by an eligible consortium.

F. Grant Award Notice
Following the evaluation outlined in Section E, FAA will notify candidates about grant awards. If selected through the pre-application process, the local FAA Regional or Airports District Office will commence a conventional grant process (including standard application materials).

This policy does not have the force and effect of law and is not meant to bind the public in any way, it is intended only to provide clarity to the public regarding existing requirements under the law or agency policies.

Issued in Washington, DC.
Robert John Craven,
Director, Airport Planning and Programming.

[FR Doc. 2021–09856 Filed 5–7–21; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION
Pipeline and Hazardous Materials Safety Administration

Hazardous Materials: Notice of Actions on Special Permits

AGENCY: Pipeline and Hazardous Materials Safety Administration (PHMSA), DOT.

ACTION: Notice of actions on special permit applications.

SUMMARY: In accordance with the procedures governing the application for, and the processing of, special permits from the Department of Transportation’s Hazardous Material Regulations, notice is hereby given that the Office of Hazardous Materials Safety has received the application described herein.

DATES: Comments must be received on or before June 9, 2021.

ADDRESSES: Record Center, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Washington, DC 20590.
Comments should refer to the application number and be submitted in triplicate. If confirmation of receipt of comments is desired, include a self-addressed stamped postcard showing the special permit number.


SUPPLEMENTARY INFORMATION: Copies of the applications are available for inspection in the Records Center, East Building, PHH–30, 1200 New Jersey Avenue Southeast, Washington DC.

This notice of receipt of applications for special permit is published in accordance with part 107 of the Federal hazardous materials transportation law (49 U.S.C. 5117(b); 49 CFR 1.53(b)).

Issued in Washington, DC, on May 3, 2021.

Donald P. Burger, Chief, General Approvals and Permits Branch.

---

<table>
<thead>
<tr>
<th>Application No.</th>
<th>Applicant</th>
<th>Regulation(s) affected</th>
<th>Nature of the special permits thereof</th>
</tr>
</thead>
<tbody>
<tr>
<td>3121–M</td>
<td>Department of Defense US Army Military Surface Deployment &amp; Distribution Command.</td>
<td>172.101(j)(1)</td>
<td>To modify the special permit to authorize the transportation of lithium-ion batteries that were intended to be used in, motor vehicles.</td>
</tr>
<tr>
<td>10831–M</td>
<td>Department of Defense US Army Military Surface Deployment &amp; Distribution Command.</td>
<td>172.243, 172.244</td>
<td>To modify the special permit to authorize the transportation in commerce of lithium-ion batteries that have not completed all U.N. tests and exceed 35 kg net weight by cargo-only aircraft.</td>
</tr>
<tr>
<td>10922–M</td>
<td>FIBA Technologies, Inc</td>
<td>173.302(a), 180.205, 180.207(d)(1), 172.302(c).</td>
<td>To modify the special permit to remove outdated references to military programs used and to more closely align with the HMR.</td>
</tr>
<tr>
<td>20499–M</td>
<td>Inmar Rx Solutions, Inc</td>
<td>173.185(f)(3), 173.185(c)(1)(iii), 173.185(c)(1)(iv), 173.185(c)(1)(v), 173.185(c)(2), 173.185(f), 173.185(h)(1).</td>
<td>To modify the special permit to authorize cargo only aircraft as a mode of transportation.</td>
</tr>
<tr>
<td>20584–M</td>
<td>Battery Solutions, LLC</td>
<td>173.200, 172.300, 172.400, 172.600, 172.700(a), 173.185(b), 173.185(c), 173.185(f).</td>
<td>To modify the special permit to authorize up to 400 lbs. of damaged/defective batteries in individual packaging to be shipped in a 55-gallon drum.</td>
</tr>
<tr>
<td>20876–M</td>
<td>Sodastream USA Inc</td>
<td>178.71</td>
<td>To modify the special permit to remove the requirement of marking the outer package with the special permit number and removed the requirement that a copy of the permit be carried aboard each vessel or motor vehicle used to transport packages covered by the permit.</td>
</tr>
<tr>
<td>21018–M</td>
<td>Packaging and Crating Technologies, LLC</td>
<td>172.101(j)</td>
<td>To modify the special permit to authorize four new package sizes.</td>
</tr>
<tr>
<td>21091–N</td>
<td>Air Products and Chemicals, Inc</td>
<td>173.301(f), 173.301(g)</td>
<td>To authorize the transportation in commerce of hydrogen in module assemblies containing non-DOT specification carbon fiber composite cylinders manufactured under DOT–SP 14576 without pressure relief devices.</td>
</tr>
<tr>
<td>21171–N</td>
<td>HDT Expeditionary Systems, Inc</td>
<td>172.101(j)</td>
<td>To authorize the transportation in commerce of lithium batteries exceeding 35 kg by cargo-only aircraft.</td>
</tr>
<tr>
<td>21182–N</td>
<td>LG Energy Solution, Ltd</td>
<td>172.101(j)</td>
<td>To authorize the transportation in commerce of lithium batteries exceeding 35 kg by cargo-only aircraft.</td>
</tr>
<tr>
<td>21191–N</td>
<td>Joyson Safety Systems Acquisition LLC</td>
<td>172.203(a), 172.301(c), 173.166(e)(6).</td>
<td>To authorize the transportation in commerce of recalled safety devices that were removed from, or were intended to be used in, motor vehicles.</td>
</tr>
<tr>
<td>21221–N</td>
<td>Starfire Corporation</td>
<td>173.56(b)</td>
<td>To authorize the transportation in commerce of unapproved explosives (firework components) as Division 1.1G.</td>
</tr>
<tr>
<td>21226–N</td>
<td>RML Group Limited</td>
<td>173.185(a)(1)</td>
<td>To authorize the transportation in commerce aboard cargo-only aircraft of prototype and low production lithium ion batteries that have not completed all U.N. tests and exceed 35 kg net weight by cargo-only aircraft.</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Application No.</th>
<th>Applicant</th>
<th>Regulation(s) affected</th>
<th>Nature of the special permits thereof</th>
</tr>
</thead>
<tbody>
<tr>
<td>21207–N</td>
<td>Volkswagen AG</td>
<td>172.101(j)</td>
<td>To authorize the transportation in commerce of lithium-ion batteries exceeding 35 kg and contained in non-specification packaging by cargo-only aircraft.</td>
</tr>
<tr>
<td>21218–N</td>
<td>RML Group Limited</td>
<td>172.101(j)</td>
<td>To authorize the transportation of lithium-ion batteries which exceed the allowable weight (35 kg) by cargo aircraft.</td>
</tr>
</tbody>
</table>
DEPARTMENT OF TRANSPORTATION
Pipeline and Hazardous Materials Safety Administration

Hazardous Materials: Notice of Applications for New Special Permits

AGENCY: Pipeline and Hazardous Materials Safety Administration (PHMSA), DOT.

ACTION: List of applications for new special permits.

SUMMARY: In accordance with the procedures governing the application for, and the processing of, special permits from the Department of Transportation’s Hazardous Material Regulations, notice is hereby given that the Office of Hazardous Materials Safety has received the application described herein. Each mode of transportation for which a particular special permit is requested is indicated by a number in the “Nature of Application” portion of the table below as follows: 1—Motor vehicle, 2—Rail freight, 3—Cargo vessel, 4—Cargo aircraft only, 5—Passenger-carrying aircraft.

DATES: Comments must be received on or before June 9, 2021.

ADDRESSES: Record Center, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Washington, DC 20590.

Comments should refer to the application number and be submitted in triplicate. If confirmation of receipt of comments is desired, include a self-addressed stamped postcard showing the special permit number.


SPECIAL PERMITS DATA

<table>
<thead>
<tr>
<th>Application No.</th>
<th>Applicant</th>
<th>Regulation(s) affected</th>
<th>Nature of the special permits thereof</th>
</tr>
</thead>
<tbody>
<tr>
<td>21210–N</td>
<td>Aero Micronesia Inc</td>
<td>172.101(j), 173.27(b)(2), 173.27(b)(3), 173.590</td>
<td>To authorize the transportation in commerce of Class 1 materials that are forbidden aboard cargo-only aircraft by cargo-only aircraft. (mode 4)</td>
</tr>
<tr>
<td>21212–N</td>
<td>The Boeing Company</td>
<td>178.955</td>
<td>To authorize the transportation in commerce of environmentally hazardous substances contained in non-DOT specification bulk packages by motor vehicle. (mode 1)</td>
</tr>
<tr>
<td>21213–N</td>
<td>Space Exploration Technologies Corp</td>
<td>172.400, 172.500, 173.302(a)</td>
<td>To authorize the transportation in commerce of spacecraft containing krypton, compressed in non-DOT specification cylinders. (mode 1)</td>
</tr>
<tr>
<td>21215–N</td>
<td>Lord Corporation</td>
<td>172.203(a), 173.58(a)</td>
<td>To authorize transportation in commerce of a certain explosive (quinone dioxime) as a flammable solid. (modes 1, 2, 3, 4, 5)</td>
</tr>
<tr>
<td>21216–N</td>
<td>Brentronics, Inc</td>
<td>172.101(j), 173.185(b)(1)</td>
<td>To authorize transportation in commerce of lithium ion batteries that exceed 35 kg in non-DOT specification packaging aboard cargo-only aircraft. (mode 4)</td>
</tr>
<tr>
<td>21217–N</td>
<td>Transporta Logistics International, Inc</td>
<td>173.420(a)(2), 173.420(a)(3)(i)</td>
<td>To authorize the transportation in commerce of UF6 in repaired cylinders that no longer meet the specification required by the Hazardous Materials Regulations. (mode 1)</td>
</tr>
<tr>
<td>21219–N</td>
<td>FIBA Technologies, Inc</td>
<td>180.212(a)</td>
<td>To authorize the transportation in commerce of certificated specific DOT 3A, DOT 3AA, DOT 3AX, DOT 3AA3X, and DOT 3T cylinders and UN ISO 11120 tubes that have been repaired. (modes 1, 2, 3, 4, 5)</td>
</tr>
<tr>
<td>21222–N</td>
<td>BrenTronics, Inc</td>
<td>172.101(j), 173.185(b)(1)</td>
<td>To authorize the transportation in commerce of lithium ion batteries exceeding 35 kg in non-DOT specification packaging by cargo-only aircraft. (mode 4)</td>
</tr>
<tr>
<td>21229–N</td>
<td>Mercedes-Benz U.S. International, Inc</td>
<td>172.101(j), 173.185(b)(1)</td>
<td>To authorize the transportation in commerce of lithium ion batteries exceeding 35 kg net weight in non-DOT specification packaging by cargo-only aircraft. (mode 4)</td>
</tr>
</tbody>
</table>

ACTION: List of applications for modification of special permits.

SUMMARY: In accordance with the procedures governing the application for, and the processing of, special permits from the Department of Transportation’s Hazardous Material Regulations, notice is hereby given that the Office of Hazardous Materials Safety has received the application described herein. Each mode of transportation for which a particular special permit is requested is indicated by a number in the “Nature of Application” portion of the table below as follows: 1—Motor vehicle, 2—Rail freight, 3—Cargo vessel, 4—Cargo aircraft only, 5—Passenger-carrying aircraft.

DATES: Comments must be received on or before May 25, 2021.

ADDRESSES: Record Center, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation Washington, DC 20590.

Comments should refer to the application number and be submitted in triplicate. If confirmation of receipt of comments is desired, include a self-addressed stamped postcard showing the special permit number.

FOR FURTHER INFORMATION CONTACT: Donald Burger, Chief, Office of Hazardous Materials Safety General Approvals and Permits Branch.
SUMMARY: In accordance with the requirements of the Paperwork Reduction Act of 1995, this notice announces the intention of the Bureau of Transportation Statistics (BTS) to request the Office of Management and Budget’s (OMB) approval of an extension for an information collection from tank car facilities to obtain an estimate of tank cars projected to be modified or built to the new safer Department of Transportation (DOT) specification, as described in Section 7308(c) of the FAST Act. This data collection has and will continue to inform Congress as well as the Department of Transportation as to industry’s progress in upgrading the nation’s fleet of rail cars to be safer in the event of an incident involving tank cars carrying Class 3 Flammable liquids. BTS has been collecting and intends to continue to collect information from tank car retrofitting and manufacturing facilities on the planned and projected number of tank cars to be retrofitted or manufactured beginning the next calendar year and annually thereafter until 2029. Any facility identified with the capacity to modify or build new tank cars to the 117 or 117R specification, as described in Section 7308(c) of the FAST Act will be included in the survey identified in this notice and is requested to submit the results to the Bureau of Transportation Statistics (BTS) no later than 60 days upon request. This will be a voluntary data collection. Individual responses to the survey will be kept confidential and a summary report of aggregate findings will be provided to:

DEPARTMENT OF TRANSPORTATION

Bureau of Transportation Statistics

Agency Information Collection Activities; Proposals, Submissions, and Approvals; Annual Tank Car Facility Survey

AGENCY: Bureau of Transportation Statistics (BTS), U. S. Department of Transportation (DOT).

ACTION: Notice and Request for Comments.

SYNOPSIS: In accordance with part 107 of the Federal hazardous materials transportation law (49 U.S.C. 5117(b); 49 CFR 1.53(b)), this notice of receipt of applications for special permit is published in accordance with part 107 of the Federal hazardous materials transportation law (49 U.S.C. 5117(b); 49 CFR 1.53(b)).

Issued in Washington, DC, on May 3, 2021.

Donald P. Burger,
Chief, General Approvals and Permits Branch.

<table>
<thead>
<tr>
<th>Application No.</th>
<th>Applicant</th>
<th>Regulation(s) affected</th>
<th>Nature of the special permits thereof</th>
</tr>
</thead>
<tbody>
<tr>
<td>10970–M</td>
<td>Luxfer Inc</td>
<td>173.302(a)(1), 173.304a(a), 173.304a(d).</td>
<td>To modify the special permit to authorize additional Division 2.2 gases, to modify the safety control measures to more accurately reflect what type of fiber is used and to waive the elastic expansion requirement. (modes 1, 2, 3, 4, 5).</td>
</tr>
<tr>
<td>12783–M</td>
<td>Cool Renewal, LLC</td>
<td>173.304a(a)(1), 173.306(a)</td>
<td>To modify the special permit to authorize the transportation in commerce of small units of certain compressed gas, intended for medical use as limited quantities. (modes 1, 2, 3, 4, 5).</td>
</tr>
<tr>
<td>14661–M</td>
<td>FIBA Technologies, Inc</td>
<td>180.209(a), 180.209(a), 180.209(b)(1), 180.209(b)(1)(iv).</td>
<td>To modify the special permit to authorize additional Division 2.1 and 2.2 hazmat. (modes 1, 2, 3).</td>
</tr>
<tr>
<td>15036–M</td>
<td>UTLX Manufacturing Incorporated</td>
<td>172.203(a), 172.302(c), 173.244, 173.1, 173.3, 173.314, 173.31(e), 179.102–2, 179.102–3, 179.15, 179.16.</td>
<td>To modify the special permit to remove the requirement for visual inspection of areas needing access via cut-out ports in the support structure. (mode 2).</td>
</tr>
<tr>
<td>20639–M</td>
<td>ICC The Compliance Center Inc.</td>
<td>172.200, 172.300, 172.600, 172.700(a), 172.400, 172.500, 173.185(f).</td>
<td>To modify the special permit to authorize the use of EXTOVER fire suppressant material in shipments. (modes 1, 2, 3).</td>
</tr>
<tr>
<td>20881–M</td>
<td>Arkema Inc</td>
<td>172.102(c)(7)</td>
<td>To modify the special permit to authorize additional tanks. (mode 1).</td>
</tr>
<tr>
<td>21136–M</td>
<td>Cimarron Composites, LLC</td>
<td>173.302(a)(1)</td>
<td>To modify the special permit to remove references to insulated tubes. (modes 1, 2, 3).</td>
</tr>
<tr>
<td>21185–M</td>
<td>Hach Company</td>
<td>172.102(b)(4), 173.36(e)</td>
<td>To modify the permit to authorize additional Class 8 hazmat. (Mode 1).</td>
</tr>
</tbody>
</table>

The supplementary information is as follows:

**Type of Request:** Approval for an extension of an existing information collection.

**Affected Public:** There are approximately 175 tank car facilities with the capacity to manufacture or retrofit tank cars capable of carrying Class 3 flammable liquids nationwide.

**Abstract:** Section 7308(c) of the Fixing America’s Surface Transportation Act (Pub. L. 114–94; the “FAST Act”) directs the Secretary of Transportation to conduct a survey of tank car facilities to obtain an estimate of tank cars projected to be modified or built to the new safer Department of Transportation (DOT) Specification 117 or 117R. Over time, this data collection has and will continue to inform Congress as well as the Department of Transportation as to industry’s progress in upgrading the nation’s fleet of rail cars to be safer in the event of an incident involving tank cars carrying Class 3 Flammable liquids. BTS has been collecting and intends to continue to collect information from tank car retrofitting and manufacturing facilities on the planned and projected number of tank cars to be retrofitted or manufactured beginning the next calendar year and annually thereafter until 2029. Any facility identified with the capacity to modify or build new tank cars to the 117 or 117R specification, as described in Section 7308(c) of the FAST Act will be included in the survey identified in this notice and is requested to submit the results to the Bureau of Transportation Statistics (BTS) no later than 60 days upon request. This will be a voluntary data collection. Individual responses to the survey will be kept confidential and a summary report of aggregate findings will be provided to:

**Special Permits Data**

<table>
<thead>
<tr>
<th>Application No.</th>
<th>Applicant</th>
<th>Regulation(s) affected</th>
<th>Nature of the special permits thereof</th>
</tr>
</thead>
<tbody>
<tr>
<td>10970–M</td>
<td>Luxfer Inc</td>
<td>173.302(a)(1), 173.304a(a), 173.304a(d).</td>
<td>To modify the special permit to authorize additional Division 2.2 gases, to modify the safety control measures to more accurately reflect what type of fiber is used and to waive the elastic expansion requirement. (modes 1, 2, 3, 4, 5).</td>
</tr>
<tr>
<td>12783–M</td>
<td>Cool Renewal, LLC</td>
<td>173.304a(a)(1), 173.306(a)</td>
<td>To modify the special permit to authorize the transportation in commerce of small units of certain compressed gas, intended for medical use as limited quantities. (modes 1, 2, 3, 4, 5).</td>
</tr>
<tr>
<td>14661–M</td>
<td>FIBA Technologies, Inc</td>
<td>180.209(a), 180.209(a), 180.209(b)(1), 180.209(b)(1)(iv).</td>
<td>To modify the special permit to authorize additional Division 2.1 and 2.2 hazmat. (modes 1, 2, 3).</td>
</tr>
<tr>
<td>15036–M</td>
<td>UTLX Manufacturing Incorporated</td>
<td>172.203(a), 172.302(c), 173.244, 173.1, 173.3, 173.314, 173.31(e), 179.102–2, 179.102–3, 179.15, 179.16.</td>
<td>To modify the special permit to remove the requirement for visual inspection of areas needing access via cut-out ports in the support structure. (mode 2).</td>
</tr>
<tr>
<td>20639–M</td>
<td>ICC The Compliance Center Inc.</td>
<td>172.200, 172.300, 172.600, 172.700(a), 172.400, 172.500, 173.185(f).</td>
<td>To modify the special permit to authorize the use of EXTOVER fire suppressant material in shipments. (modes 1, 2, 3).</td>
</tr>
<tr>
<td>20881–M</td>
<td>Arkema Inc</td>
<td>172.102(c)(7)</td>
<td>To modify the special permit to authorize additional tanks. (mode 1).</td>
</tr>
<tr>
<td>21136–M</td>
<td>Cimarron Composites, LLC</td>
<td>173.302(a)(1)</td>
<td>To modify the special permit to remove references to insulated tubes. (modes 1, 2, 3).</td>
</tr>
<tr>
<td>21185–M</td>
<td>Hach Company</td>
<td>172.102(b)(4), 173.36(e)</td>
<td>To modify the permit to authorize additional Class 8 hazmat. (Mode 1).</td>
</tr>
</tbody>
</table>
(1) The Committee on Commerce, Science, and Transportation of the Senate; and
(2) The Committee on Transportation and Infrastructure of the House of Representatives.

In addition, this summary report will also be published to the BTS web page.

Data Confidentiality Provisions: The Annual Tank Car Facility Survey may collect confidential business information. The confidentiality of these data will be protected under Title V of the E-Government Act, the Confidential Information Protection and Statistical Efficiency Act of 2002 (CIPSEA). In accordance with this legislation, individual responses will not be disclosed in any direct or indirect manner and only aggregated statistical information will be made available through reports.

Frequency: This survey will be updated every year until 2029.

Estimated Average Burden per Response: The burden per respondent is estimated to be an average of 30 minutes. This includes the time required to gather records as well as respond to the survey.

Estimated Total Annual Burden: Across the nation there are approximately 400 tank car facilities that are currently registered or certified to build or modify tank cars. However, the majority of these do not have the capacity to modify or build to the 117 or 117R Specifications. It is estimated that, at most, 175 tank car shops possess the required capacity to build or modify to these newer requirements. The total annual burden is estimated to be 87.5 hours (that is 30 minutes per respondent for 175 respondents equals 5,250 minutes).

Response to Comments: A 60-day notice requesting public comment was issued in the Federal Register on January 11, 2021 (Volume 86, Number 6; pages 2030–2031). No comments were received.

Public Comments Invited: Interested parties are invited to send comments regarding any aspect of this information collection, including, but not limited to:

(1) The necessity and utility of the information collection for the proper performance of the functions of the DOT; (2) the accuracy of the estimated burden; (3) ways to enhance the quality, utility, clarity and content of the collected information; and (4) ways to minimize the collection burden without reducing the quality of the collected information. Send comments to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725–17th Street NW, Washington, DC 20503, Attention: BTS Desk Officer.

Issued in Washington, DC, on this 5th day of May, 2021.

Chai-Chi Fan, Director, Office of Data Development and Standards, Bureau of Transportation Statistics, Office of the Assistant Secretary for Research and Technology.

[FR Doc. 2021–09816 Filed 5–7–21; 8:45 am]

BILLING CODE 4910–9X–P

DEPARTMENT OF THE TREASURY

Request for Expressions of Interest in Membership on the Advisory Committee on Risk-Sharing Mechanisms

AGENCY: Departmental Offices, U.S. Department of the Treasury.

ACTION: Notice.

SUMMARY: The Federal Insurance Office (FIO) within the Department of the Treasury invites the public to submit expressions of interest in serving as members of the Advisory Committee on Risk-Sharing Mechanisms (ACRSM). Potential candidates must meet the membership criteria set forth below. Submissions must be received by FIO no later than June 15, 2021.

FOR FURTHER INFORMATION CONTACT: Richard Ifft, Senior Insurance Regulatory Policy Analyst, Federal Insurance Office, Department of the Treasury, 1500 Pennsylvania Ave. NW, Room 1410 MT, Washington, DC 20220, at (202) 622–2922 (this is not a toll-free number). Persons who have difficulty hearing or speaking may access this number via TTY by calling the toll-free Federal Relay Service at (800) 877–8339.

SUPPLEMENTARY INFORMATION: Background. The ACRSM, a federal advisory committee of representatives of the affected sectors of the insurance industry, was established in 2015 under the Terrorism Risk Insurance Program Reauthorization Act of 2015 (the Reauthorization Act). The ACRSM provides FIO with nonbinding advice and recommendations with respect to (1) the creation and development of non-governmental, private market risk-sharing mechanisms for protection against losses arising from acts of terrorism; and (2) FIO’s administration of the Terrorism Risk Insurance Program (TRIP). Assisting the Secretary of the Treasury in the administration of TRIP is among FIO’s duties and authorities as set out in Subpart A of the Federal Insurance Office Act of 2010 (31 U.S.C. 313, et seq.), Title V of the Dodd-Frank Wall Street Reform and Consumer Protection Act, P.L. 111–203, 12 U.S.C. 5301 et seq. (July 21, 2010).

Under the Reauthorization Act, the ACRSM “shall be composed of nine members who are directors, officers, or other employees of insurers, reinsurers, or capital market participants that are participating or that desire to participate” in the market for terrorism risk insurance, and “who are representative of the affected sectors of the insurance industry, including commercial property insurance, commercial casualty insurance, reinsurance, and alternative risk transfer industries.” The ACRSM’s membership is balanced to include a cross-section of these individuals. More information regarding the ACRSM, including a list of its current members, prior recommendations to FIO, and its organizational documents, is available on the Treasury website.

Individuals interested in serving as members of the ACRSM who meet the membership criteria described above should submit an expression of interest including name, organization or affiliation, and contact information (e.g., employment address, telephone number, and email address). Submissions should also include a curriculum vitae and a statement describing the individual’s interest in serving and willingness to work on the issues addressed by the ACRSM. FIO and Treasury will retain the ultimate authority to appoint members to the ACRSM and will not be required to appoint any individuals submitting expressions of interest through this process.

Some members of the ACRSM may be required to adhere to the conflict of interest rules applicable to Special Government Employees as such employees are defined in 18 U.S.C. 202(a). These rules include relevant provisions in 18 U.S.C. related to criminal activity, Standards of Ethical Conduct for Employees of the Executive Branch (5 CFR part 2635), and Executive

2 Reauthorization Act, § 110(b)(3).

1 Public Law 114–1, 129 Stat. 3, § 110.
Order 12674 (as modified by Executive Order 12731).

In accordance with Department of Treasury Directive 21–03, candidates for appointment to the ACRSM are subject to a clearance process, including fingerprinting, annual tax checks, and a Federal Bureau of Investigation criminal check. All ACRSM candidates must agree to submit to these pre-appointment checks.

The deadline for submitting expressions of interest is June 15, 2021. Submissions may be sent by email to ACRSM@treasury.gov or by mail to: The Federal Insurance Office, Department of the Treasury, 1500 Pennsylvania Avenue NW, Washington, DC 20220–0002, Attention: ACRSM.

Steven Seitz, Director, Federal Insurance Office.

25066 Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Notices

DEPARTMENT OF THE TREASURY
United States Mint

2021 Pricing of Numismatic Gold, Commemorative Gold, Platinum, and Palladium Products Grid

The deadline for submitting expressions of interest is June 15, 2021. Submissions may be sent by email to ACRSM@treasury.gov or by mail to: The Federal Insurance Office, Department of the Treasury, 1500 Pennsylvania Avenue NW, Washington, DC 20220–0002, Attention: ACRSM.

Steven Seitz, Director, Federal Insurance Office.

The United States Mint announces 2021 revisions to include price increases for the American Eagle Gold Proof Coin, American Eagle Gold Uncirculated Coin, American Buffalo Gold Proof Coin, American Liberty Gold Coin, and Mayflower Gold Coins within the Pricing of Numismatic Gold, Commemorative Gold, Platinum, and Palladium Products Grid. An excerpt of the grid with a recent price range for the American Eagle Gold Proof coins appears below:


Pricing can vary weekly dependent upon the London Bullion Market Association gold, platinum, and palladium prices weekly average. The pricing for all United States Mint numismatic gold, platinum, and palladium products is evaluated every Wednesday and modified as necessary.

FOR FURTHER INFORMATION CONTACT:
Cathy Olson; Sales and Marketing Directorate; United States Mint; 801 9th Street NW; Washington, DC 20220; or call 202–354–7500.

FOR FURTHER INFORMATION CONTACT:
Cathy Olson; Sales and Marketing Directorate; United States Mint; 801 9th Street NW; Washington, DC 20220; or call 202–354–7500.


Eric Anderson, Executive Secretary, United States Mint.

UNIFIED CARRIER REGISTRATION PLAN
Sunshine Act Meeting; Unified Carrier Registration Plan Board Subcommittee Meeting

TIME AND DATE: May 13, 2021, 12:00 p.m. to 2:00 p.m., Eastern time.

PLACE: This meeting will be accessible via conference call and via Zoom Meeting and Screenshare. Any interested person may call (i) 1–929–205–6099 (US Toll) or 1–669–900–6833 (US Toll) or (ii) 1–877–853–5247 (US Toll Free) or 1–888–788–0099 (US Toll Free), Meeting ID: 916 0446 8270, to listen and participate in this meeting. The website to participate via Zoom Meeting and Screenshare is https://kellen.zoom.us/j/91604468270.

STATUS: This meeting will be open to the public.

MATTERS TO BE CONSIDERED: The Unified Carrier Registration Plan Finance Subcommittee (the “Subcommittee”) will continue its work in developing and implementing the Unified Carrier Registration Plan and Agreement. The subject matter of this meeting will include:

Proposed Agenda
I. Call to Order—Subcommittee Chair

The Subcommittee Chair will welcome attendees, call the meeting to order, call roll for the Subcommittee, confirm whether a quorum is present, and facilitate self-introductions.

II. Verification of Publication of Meeting Notice—UCR Executive Director

The UCR Executive Director will verify the publication of the meeting notice on the UCR website and distribution to the UCR contact list via email followed by the subsequent publication of the notice in the Federal Register.
III. Review and Approval of Subcommittee Agenda and Setting of Ground Rules—Subcommittee Chair

For Discussion and Possible Subcommittee Action

The Agenda will be reviewed, and the Subcommittee will consider adoption.

Ground Rules

➢ Subcommittee action only to be taken in designated areas on agenda

IV. Review and Approval of Minutes From April 1, 2021 Meeting—Subcommittee Chair

For Discussion and Possible Subcommittee Action

Draft minutes from the April 1, 2021 Subcommittee meeting via teleconference will be reviewed. The Subcommittee will consider action to approve.

V. 2023 Fee Change Recommendation—Calculation Methodology—Subcommittee Chair and UCR Depository Manager

For Discussion and Possible Subcommittee Action

The Subcommittee Chair and the UCR Depository Manager will lead a discussion regarding the merits of using an “average collections” method for estimating the remaining fees collected before the end of the registration year on September 30, 2022 versus the “minimum collections” method used for estimating fee collections over the same period. The Subcommittee may take action to make a recommendation to the UCR Board of Directors regarding the most appropriate method to use.

VI. 2023 Fee Change Recommendation—Initial Estimate—UCR Depository Manager

The UCR Depository Manager will present the initial fee calculations for the 2023 registration year. This will be an initial review to the Subcommittee and most likely will not be the final fees recommended to the UCR Board from the Subcommittee for the 2023 registration year. This will be a forward-looking analysis, and no reliance should be placed on whether these figures will be the fees that will be recommended for the 2023 registration year because they are very preliminary and subject to change prior to the Subcommittee’s final fee recommendation to the Board to be made at the Subcommittee’s July meeting.

VII. 2019 Registration Year Closure—UCR Depository Manager

For Discussion and Possible Subcommittee Action

The UCR Depository Manager will present to the Subcommittee the results of the final closure of the Depository for the 2019 registration year.

VIII. Other Business—Subcommittee Chair

The Subcommittee Chair will call for any other items Subcommittee members would like to discuss.

IX. Adjournment—Subcommittee Chair

The Subcommittee Chair will adjourn the meeting.

The agenda will be available no later than 5:00 p.m. Eastern time, May 5, 2021 at: https://plan.ucr.gov.

CONTACT PERSON FOR MORE INFORMATION: Elizabeth Leaman, Chair, Unified Carrier Registration Plan Board of Directors, (617) 305–3783, eleaman@board.ucr.gov.

Alex B. Leath, Chief Legal Officer, Unified Carrier Registration Plan Board of Directors, (617) 305–3783, eleaman@board.ucr.gov.

DEPARTMENT OF VETERANS AFFAIRS

[OMB Control No. 2900–0668]

Agency Information Collection Activity Under OMB Review: Supplemental Income Questionnaire (for Philippine Claims Only)

AGENCY: Veterans Benefits Administration, Department of Veterans Affairs.

ACTION: Notice.

SUMMARY: In compliance with the Paperwork Reduction Act (PRA) of 1995, this notice announces that the Veterans Benefits Administration, Department of Veterans Affairs, will submit the collection of information abstracted below to the Office of Management and Budget (OMB) for review and comment. The PRA submission describes the nature of the information collection and its expected cost and burden and it includes the actual data collection instrument.

DATES: Written comments and recommendations for the proposed information collection should be sent within 30 days of publication of this notice to www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function. Refer to “OMB Control No. 2900–0668”.

FOR FURTHER INFORMATION CONTACT: Maribel Aponte, Office of Enterprise and Integration, Data Governance Analytics (008), 1717 H Street NW, Washington, DC 20006, (202) 266–4688 or email maribel.aponte@va.gov. Please refer to “OMB Control No. 2900–0668” in any correspondence.

SUPPLEMENTARY INFORMATION:


Title: Supplemental Income Questionnaire (for Philippine Claims Only) (VA Form 21P–0784).

OMB Control Number: 2900–0668.

Type of Review: Reinstatement of a previously approved collection.

Abstract: VBA administers Pension Benefits, which is a needs-based benefit program for wartime Veterans, who are aged 65 or older or have a permanent and total non-service-connected disability and limited income and net worth. Eligibility is determined based on the income of and asset amounts for the Veteran and their spouse. Claimants residing in the Philippines complete the 21P–0784 Supplemental Income Questionnaire (for Philippine Claims Only) to report their countable family income and net worth.

VBA uses the information to determine the claimant’s entitlement to pension benefits. In an effort to safeguard Veterans and their beneficiaries from financial exploitation, the instructions on this form were amended to include information regarding VA-accredited attorneys or agents charging fees in connection with a proceeding before the Department of Veterans Affairs with respect to a claim.

[FR Doc. 2021–09924 Filed 5–6–21; 11:15 am]

BILLING CODE 4910–YL–P
An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The Federal Register Notice with a 60-day comment period soliciting comments on this collection of information was published at 86 FR 34 on February 23, 2021, page 11056.

Affected Public: Individuals or Households.
Estimated Annual Burden: 30 hours.
Estimated Average Burden Per Respondent: 15 minutes.
Frequency of Response: One time.
Estimated Number of Respondents: 120.

By direction of the Secretary:
Maribel Aponte,
VA PRA Clearance Officer, Office of Enterprise and Integration, Data Governance Analytics, Department of Veterans Affairs.

[FR Doc. 2021–09870 Filed 5–7–21; 8:45 am]
BILLING CODE 8320–01–P
Department of Health and Human Services

Centers for Medicare & Medicaid Services

42 CFR Parts 412, 413, 425, et al.
Medicare Program; Hospital Inpatient Prospective Payment Systems for Acute Care Hospitals and the Long-Term Care Hospital Prospective Payment System and Proposed Policy Changes and Fiscal Year 2022 Rates; Quality Programs and Medicare Promoting Interoperability Program Requirements for Eligible Hospitals and Critical Access Hospitals; Proposed Changes to Medicaid Provider Enrollment; and Proposed Changes to the Medicare Shared Savings Program; Proposed Rule
DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Medicare & Medicaid Services

42 CFR Parts 412, 413, 425, 455, and 495

[CMS–1752–P] RIN 0938–AU44

Medicare Program; Hospital Inpatient Prospective Payment Systems for Acute Care Hospitals and the Long-Term Care Hospital Prospective Payment System and Proposed Policy Changes and Fiscal Year 2022 Rates; Quality Programs and Medicare Promoting Interoperability Program Requirements for Eligible Hospitals and Critical Access Hospitals; Proposed Changes to Medicaid Provider Enrollment; and Proposed Changes to the Medicare Shared Savings Program

AGENCY: Centers for Medicare & Medicaid Services (CMS), HHS.

ACTION: Proposed rule.

SUMMARY: We are proposing to revise the Medicare hospital inpatient prospective payment systems (IPPS) for operating and capital-related costs of acute care hospitals to implement changes arising from our continuing experience with these systems for FY 2022 and to implement certain recent legislation. In addition, we are proposing to rebase and revise the hospital market baskets for acute care hospitals, update the labor-related share, and provide the market basket update that would apply to the rate-of-increase limits for certain hospitals excluded from the IPPS that are paid on a reasonable cost basis, subject to these limits for FY 2022. We are also proposing policies relating to Medicare graduate medical education (GME) for teaching hospitals to implement certain recent legislation. The proposed rule would also update the payment policies and the annual payment rates for the Medicare prospective payment system (PPS) for inpatient hospital services provided by long-term care hospitals (LTCHs) for FY 2022. In this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to extend New COVID–19 Treatments Add-on Payment (NCTAP) for certain eligible products through the end of the fiscal year in which the PHE ends and to discontinue the NCTAP for discharges on or after October 1, 2021 for a product that is approved for new technology add-on payments beginning FY 2022. We are also proposing to repeal the collection of market-based rate information on the Medicare cost report and the market-based MS–DRG relative weight methodology, as finalized in the FY 2021 IPPS/LTCH PPS final rule.

We are proposing to establish new requirements and revise existing requirements for eligible hospitals and critical access hospitals (CAHs) participating in the Medicare Promoting Interoperability Program. We are also providing estimated and newly established performance standards for the Hospital Value-Based Purchasing (VBP) Program, and proposing updated policies for the Hospital Readmissions Reduction Program, Hospital Inpatient Quality Reporting (IQR) Program, Hospital VBP Program, Hospital-Acquired Condition (HAC) Reduction Program, and the PPS-Exempt Cancer Hospital Reporting (PCHQR) Program, and the Long-Term Care Hospital Quality Reporting Program (LTCH QRP). Additionally, due to the impact of the COVID–19 PHE on measure data used in our value-based purchasing programs, we are proposing to suppress several measures in the Hospital VBP, HAC Reduction, and Hospital Readmissions Reduction Programs. In connection with our measure suppression proposals for the FY 2022 Hospital VBP Program, we are also proposing to revise the scoring and payment methodology for the FY 2022 program year such that hospitals will not be scored using quality measure data that are distorted by the effects of the COVID–19 public health emergency (PHE) and will not receive Total Performance Scores or adjustments to their payments as a result. Similarly, we are proposing to suppress affected measures for the FY 2022 HAC Reduction Program such that hospitals will not be scored using distorted quality measure data and will not receive Total HAC Scores based on those data. For the Hospital Readmissions Reduction Program, we are proposing to suppress one affected measure under the proposed measure suppression policy for the FY 2023 applicable period such that hospitals will not be assessed using distorted quality measure data and will not receive payment reductions based on those data.

In addition, we are proposing to change, clarify, and codify Medicare organ acquisition payment policies relative to organ procurement organizations (OPOs), transplant hospitals, and donor community hospitals. Also, we are proposing to add regulations requiring that state Medicaid agencies accept valid enrollments from all Medicare-enrolled providers and suppliers for purposes of processing claims for Medicare cost-sharing liability for services furnished to Medicare-Medicaid dually eligible individuals in order to alleviate a long-standing problem related to claiming Medicare bad debt.

Additionally, we are proposing to amend the Medicare Shared Savings Program regulations to allow eligible accountable care organizations (ACOs) participating in the BASIC track’s glide path the opportunity to maintain their current level of participation for performance year (FY) 2022.

DATES: To be assured consideration, comments must be received at one of the addresses provided in the DATES section, no later than 5 p.m. EDT on June 28, 2021.

ADDRESSES: In commenting, please refer to file code CMS–1752–P. Because of staff and resource limitations, we cannot accept comments by facsimile (FAX) transmission.

Comments, including mass comment submissions, must be submitted in one of the following three ways (please choose only one of the ways listed):

1. Electronically. You may (and we encourage you to) submit electronic comments on this regulation to http://www.regulations.gov. Follow the instructions under the “submit a comment” tab.
2. By regular mail. You may mail written comments to the following address ONLY: Centers for Medicare & Medicaid Services, Department of Health and Human Services, Attention: CMS–1752–P, P.O. Box 8013, Baltimore, MD 21244–1850.

Please allow sufficient time for mailed comments to be received before the close of the comment period.

3. By express or overnight mail. You may send written comments via express or overnight mail to the following address ONLY: Centers for Medicare & Medicaid Services, Department of Health and Human Services, Attention: CMS–1752–P, Mail Stop C4–26–05, 7500 Security Boulevard, Baltimore, MD 21244–1850.

For information on viewing public comments, we refer readers to the beginning of the SUPPLEMENTARY INFORMATION section.

FOR FURTHER INFORMATION CONTACT:

Donald Thompson, (410) 786–4487, and Michele Hudson, (410) 786–4487, Operating Prospective Payment, MS–DRG Relative Weights, Wage Index, Hospital Geographic Reclassifications, Graduate Medical Education, Capital Prospective Payment, Excluded Hospitals, Medicare Disproportionate Share Hospital (DSH) Payment
Adjustment, Sole Community Hospitals (SCHs), Medicare-Dependent Small Rural Hospital (MDH) Program, Low-Volume Hospital Payment Adjustment, and Critical Access Hospital (CAH) Issues.

Emily Lipkin, (410) 786–3633 and Jim Mildenberger, (410) 786–4551, Long-Term Care Hospital Prospective Payment System and MS–LTC–DRG Relative Weights Issues.

Emily Forrest, (202) 205–1922, Market-Based Data Collection and Market-Based MS–DRG Relative Weight Methodology Issues.


Mady Hue, (410) 786–4510, and Andrea Hazeley, (410) 786–3543, MS–DRG Classifications Issues.

Mollie Knight, (410) 786–7948, and Bridget Dicksheets, (410) 786–8670, Rebasing and Revising the Hospital Market Baskets Issues.

Siddhartha Mazumdar, (410) 786–6673, Rural Community Hospital Demonstration Program Issues.

Jeri Smith, (410) 786–0110, Frontier Community Health Integration Project Demonstration Issues.

Pamela Brown, pamela.brown@cms.hhs.gov, Hospital Readmissions Reduction Program—Administration Issues.

Jim Poyer, james.poyer@cms.hhs.gov, Hospital Readmissions Reduction Program—Readmissions—Measures Issues.

Jennifer Tate, jennifer.tate@cms.hhs.gov, Hospital-Acquired Condition Reduction Program—Administration Issues.

Yuling Li, (410) 786–8421, Hospital-Acquired Condition Reduction Program—Measures Issues.

Julia Venanzi, julia.venanzi@cms.hhs.gov, Hospital Inpatient Quality Reporting and Hospital Value-Based Purchasing Programs—Administration Issues.

Katrina Hoadley, katrina.hoadley@cms.hhs.gov, Hospital Inpatient Quality Reporting and Hospital Value-Based Purchasing Programs—Measures Issues Except Hospital Consumer Assessment of Healthcare Providers and Systems Issues.

Elizabeth Goldstein, (410) 786–6665, Hospital Inpatient Quality Reporting and Hospital Value-Based Purchasing—Hospital Consumer Assessment of Healthcare Providers and Systems Measures Issues.

Annie Hollis, annie.hollis@cms.hhs.gov, PPS-Exempt Cancer Hospital Quality Reporting—Administration Issues.

Katrina Hoadley, katrina.hoadley@cms.hhs.gov, PPS-Exempt Cancer Hospital Quality Reporting Program—Measure Issues.

Christy Hughes, (410) 786–5662, Long-Term Care Hospital Quality Reporting Program—Data Reporting Issues.

Jessica Warren, jessica.warren@cms.hhs.gov, Dylan Podson, dylan.podson3@cms.hhs.gov, and Elizabeth Holland, elizabeth.holland@cms.hhs.gov, Promoting Interoperability Programs.

Candace Anderson, (410) 786–1553, Medicaid Enrollment of Medicare Providers and Suppliers for Purposes of Processing Claims for Cost-Sharing for Services Furnished to Dually Eligible Beneficiaries.


Naseem Taromhamed, (410) 786–0814, or SharedSavingsProgram@cms.hhs.gov, for issues related to the Shared Savings Program.

SUPPLEMENTARY INFORMATION:

Inspection of Public Comments: All comments received before the close of the comment period are available for viewing by the public, including any personally identifiable or confidential business information that is included in a comment. We post all comments received before the close of the comment period on the following website as soon as possible after they have been received: http://www.regulations.gov/. Follow the search instructions on that website to view public comments.

Tables Available Through the Internet on the CMS Website

The IPPS tables for this FY 2022 proposed rule are available through the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html. Click on the link on the left side of the screen titled, “FY 2022 IPPS Proposed rule Home Page” or “Acute Inpatient—Files for Download.” The LTCH PPS tables for this FY 2022 proposed rule are available through the internet on the CMS website at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/LongTermCareHospitalPPS/index.html under the list item for Regulation Number CMS–1752–P. For further details on the contents of the tables referenced in this proposed rule, we refer readers to section VI. of the Addendum to this FY 2022 IPPS/LTCH PPS proposed rule. Readers who experience any problems accessing any of the tables that are posted on the CMS websites, as previously identified, should contact Michael Treitel at (410) 786–4552.

Table of Contents

I. Executive Summary and Background

A. Executive Summary

B. Background Summary

C. Summary of Provisions of Recent Legislation That Would Be Implemented in This Proposed Rule

D. Summary of the Provisions of This Proposed Rule

E. Advancing Health Information Exchange

F. Use of FY 2020 or FY 2019 Data in the FY 2022 IPPS and LTCH PPS Ratesetting

II. Proposed Changes to Medicare Severity Diagnosis-Related Group (MS–DRG) Classifications and Relative Weights

A. Background

B. Adoption of the MS–DRGs and MS–DRG Reclassifications

C. Proposed FY 2022 MS–DRG Documentation and Coding Adjustment

D. Proposed Changes to Specific MS–DRG Classifications

E. Recalibration of the FY 2022 MS–DRG Relative Weights

F. Proposed Add-On Payments for New Services and Technologies for FY 2022

III. Proposed Changes to the Hospital Wage Index for Acute Care Hospitals

A. Background

B. Worksheet S–3 Wage Data for the Proposed FY 2022 Wage Index

C. Verification of Worksheet S–3 Wage Data

D. Method for Computing the Proposed FY 2022 Unadjusted Wage Index

E. Proposed Occupational Mix Adjustment to the FY 2022 Wage Index

F. Analysis and Implementation of the Proposed Occupational Mix Adjustment and the Proposed FY 2022 Occupational Mix Adjustment

G. Application of the Rural Floor, Application of the State Frontier Floor, and Continuation of the Low Wage Index Hospital Policy, and Proposed Budget Neutrality Adjustment

H. Proposed FY 2022 Wage Index Tables

I. Proposed Revisions to the Wage Index Based on Hospital Redesignations and Reclassifications

J. Proposed Out-Migration Adjustment Based on Commuting Patterns of Hospital Employees

K. Reclassification From Urban to Rural Under Section 1886(d)(6)(E) of the Act Implemented at 42 CFR 412.103

L. Process for Requests for Wage Index Data Corrections

M. Proposed Labor-Related Share for the FY 2022 Wage Index

IV. Proposed Rebasing and Revising of the Hospital Market Baskets for Acute Care Hospitals

A. Background

B. Rebasing and Revising the IPPS Market Basket

C. Market Basket for Certain Hospitals Presently Excluded From the IPPS

D. Rebasing and Revising the Capital Input Price Index (CIPPI)

V. Other Decisions and Changes to the IPPS for Operating System
A. Proposed Changes In the Inpatient Hospital Updates for FY 2022
   § 412.64(d)

B. Rural Referral Centers (RRCs)—Proposed Annual Updates to Case-Mix Index and Discharge Criteria
   § 412.96

C. Proposed Payment Adjustment for Low-Volume Hospitals
   § 412.101

D. Proposed Indirect Medical Education (IME) Payment Adjustment Factor
   § 412.105

E. Proposed Payment Adjustment for Medicare Disproportionate Share Hospitals
   §§ 412.105 and 413.75 through 413.83

F. Counting Days Associated With Section 1115 Demonstration Projects in the Medicaid Fraction

G. Hospital Readmissions Reduction Program: Proposed Updates and Changes
   §§ 412.150 Through 412.154

H. Hospital Value-Based Purchasing (VPB)
   Program: Proposed Updates and Changes
   §§ 412.160 Through 412.167

I. Hospital–Accrual Conditions (HAC) Reduction Program: Proposed Updates and Changes
   § 412.170

J. Proposed Payments for Indirect and Direct Graduate Medical Education Costs
   §§ 412.105 and 413.75 through 413.83

K. Rural Community Hospital Demonstration Program

L. Market-Based MS–DRG Relative Weight—Proposed Policy Changes
   § 413.20

M. Payment Adjustment for CAR T-cell Clinical Trial and Expanded Use for Immunotherapy Cases
   §§ 412.85 and 412.312

VI. Proposed Changes to the IPPS for Capital-Related Costs
   A. Overview

B. Additional Provisions

C. Proposed Annual Update for FY 2022

VII. Proposed Changes for Hospitals Excluded From the IPPS
   A. Proposed Rate-of-Increase in Payments to Excluded Hospitals for FY 2022
   B. Critical Access Hospitals

VIII. Proposed Changes to the Long-Term Care Hospital Prospective Payment System (LTCH PPS)
   A. Background of the LTCH PPS

B. Medicare Severity Long-Term Care Diagnosis-Related Group (MS–LTC–DRG) Classifications and Relative Weights
   for FY 2021

C. Proposed Changes to the LTCH PPS Payment Rates and Other Proposed Changes to the LTCH PPS
   and LTCH PPS Federal Prospective Payments for FY 2022

IX. Proposed Quality Data Reporting Requirements for Specific Providers and Suppliers
   A. Advancing to Digital Quality Measurement and the Use of Fast Healthcare Interoperability Resources (FHIR) in Hospital Quality Programs
   Request for Information

B. Closing the Health Equity Gap in CMS Hospital Quality Programs
   Request for Information

C. Hospital Inpatient Quality Reporting (IQR)
   Program

D. Changes to the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR)
   Program

E. Long-Term Care Hospital Quality Reporting Program (LTCH QRP)

F. Proposed Changes to the Medicare Promoting Interoperability Programs

G. Proposed Changes for Hospitals and Other Providers and Suppliers
   A. Medicaid Enrollment of Medicare Providers and Suppliers for Purposes of Processing Claims for Cost-Sharing for Services Furnished to Dually Eligible Beneficiaries—Proposed Policy Changes
   § 455.410

H. Proposed Payment of LTCH PPS Rates for Inpatient Hospital Services
   After October 1, 2021 and Payment Rates for LTCHs Effective for Discharges Occurring on or After October 1, 2021

I. Summary and Background

II. Proposed Changes to Prospective Payment Rates for Hospital Inpatient Operating Costs for Acute Care Hospitals for FY 2022
   A. Calculation of the Proposed Adjusted Standardized Amount
   B. Proposed Adjustments for Area Wage Levels and Cost-of-Living
   C. Calculation of the Proposed Prospective Payment Rates

III. Proposed Changes to Payment Rates for Acute Care Hospital Inpatient Capital-Related Costs for FY 2022
   A. Determination of the Proposed Federal Hospital Inpatient Capital-Related Prospective Payment Rate Update for FY 2022
   B. Calculation of the Proposed Inpatient Capital-Related Prospective Payments for FY 2022

IV. Proposed Changes to Payment Rates for the LTCH PPS for FY 2022
   A. Proposed LTCH PPS Standard Federal Payment Rate for FY 2022
   B. Proposed Adjustment for Area Wage Levels Under the LTCH PPS for FY 2022
   C. Proposed Cost-of-Living Adjustment (COLA) for LTCHs Located in Alaska and Hawaii
   D. Proposed Adjustment for LTCH PPS High-Cost Outlier (HCO) Cases
   E. Proposed Update to the IPPS Comparable/Equivalent Amounts to Reflect the Statutory Changes to the IPPS DSH Payment Adjustment Methodology
   F. Computing the Proposed Adjusted LTCH PPS Federal Prospective Payments for FY 2022

VI. Table Referenced in This Proposed Rule Generally Available Through the Internet on the CMS Website

Appendix A—Economic Analyses
I. Regulatory Impact Analysis
A. Statement of Need

B. Overall Impact
C. Objectives of the IPPS and the LTCH PPS
D. Limitations of Our Analysis
E. Hospitals Included in and Excluded From the IPPS
F. Effects on Hospitals and Hospital Units
   Excluded From the IPPS
G. Quantitative Effects of the Policy
   Changes Under the IPPS for Operating Costs
H. Effects of Other Proposed Policy Changes
I. Effects of Proposed Changes in the Capital IPPS
J. Effects of Proposed Payment Rate Changes and Policy Changes Under the LTCH PPS
K. Effects of Proposed Requirements for Hospital Inpatient Quality Reporting (IQR) Program
L. Effects of Proposed Requirements for the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program
M. Effects of Proposed Requirements for the Long-Term Care Hospital Quality Reporting Program (LTCH QRP)

N. Effects of Proposed Requirements Regarding the Promoting Interoperability Program
O. Alternatives Considered
P. Overall Conclusion
Q. Regulatory Review Costs

II. Accounting Statements and Tables
A. Acute Care Hospitals

B. LTCHs

III. Regulatory Flexibility Act (RFA) Analysis
IV. Impact on Small Rural Hospitals

V. Unfunded Mandate Reform Act (UMRA) Analysis

VI. Executive Order 13175

VII. Executive Order 12866

Appendix B: Recommendation of Update Factors for Operating Cost Rates of Payment for Inpatient Hospital Services

I. Background

II. Inpatient Hospital Update for FY 2022
   A. Proposed FY 2022 Inpatient Hospital Update
   B. Proposed Update for SCHs and MDHs for FY 2022
   C. Proposed FY 2022 Puerto Rico Hospital Update
   D. Proposed Update for Hospitals Excluded From the IPPS for FY 2022
   E. Proposed Update for LTCHs for FY 2022
   III. Secretary’s Recommendation

IV. MedPAC Recommendation for Assessing Payment Adequacy and Updating Payments in Traditional Medicare

I. Executive Summary and Background

A. Executive Summary

1. Purpose and Legal Authority

This FY 2022 IPPS/LTCH PPS proposed rule would make payment and policy changes under the Medicare inpatient prospective payment systems (IPPS) for operating and capital-related costs of acute care hospitals as well as for certain hospitals and hospital units excluded from the IPPS. In addition, it would make payment and policy changes for inpatient hospital services.
provided by long-term care hospitals (LTCHs) under the long-term care hospital prospective payment system (LTCH PPS). This proposed rule also would make policy changes to programs associated with Medicare IPPS hospitals, IPPS-excluded hospitals, and LTCHs. In this FY 2022 proposed rule, we are continuing policies to address wage index disparities impacting low wage index hospitals; including a proposal to implement the imputed floor wage index provision of the American Rescue Plan Act of 2021; including proposals related to new technology add-on payments; and proposing to repeal the collection of market-based rate information on the Medicare cost report and the market-based MS–DRG relative weight methodology, as finalized in the FY 2021 IPPS/LTCH PPS final rule. This proposed rule also includes proposals to implement provisions of the Consolidated Appropriations Act of 2021 relating to payments to hospitals for direct graduate medical education (GME) and indirect medical education (IME) costs.

We are proposing to establish new requirements and revise existing requirements for eligible hospitals and CAHs participating in the Medicare Promoting Interoperability Program. We are providing estimated and newly established performance standards for the Hospital Value-Based Purchasing (VBP) Program, and proposing updated policies for the Hospital Readmissions Reduction Program, Hospital Inpatient Quality Reporting (IQR) Program, Hospital VBP Program, Hospital-Acquired Condition (HAC) Reduction Program, Long Term Care Hospital Quality Reporting Program (LTCH QRP), and the PPS-Exempt Cancer Hospital Reporting (PCHQR) Program. Additionally, due to the impact of the COVID–19 PHE on measure data used in our value-based purchasing programs, we are proposing to suppress several measures in the Hospital VBP, HAC Reduction, and Hospital Readmissions Reduction Programs. As a result of these measure suppressions for the Hospital VBP Program we are also proposing a special scoring methodology for FY 2022 that results in a value-based incentive payment amount that matches the 2 percent reduction to the base operating DRG payment amount.

Under various statutory authorities, we either discuss continued program implementation or are proposing to make changes to the Medicare IPPS, to the LTCH related payment methodologies and programs for FY 2022 and subsequent fiscal years, and other policies and provisions included in this rule. These statutory authorities include, but are not limited to, the following:

- **Section 1886(d) of the Social Security Act (the Act), which sets forth a system of payment for the operating costs of acute care hospital inpatient stays under Medicare Part A (Hospital Insurance) based on prospectively set rates. Section 1886(g) of the Act requires that, instead of paying for capital-related costs of inpatient hospital services on a reasonable cost basis, the Secretary use a prospective payment system (PPS).**
- **Section 1886(d)(1)(B) of the Act, which specifies that certain hospitals and hospital units are excluded from the IPPS. These hospitals and units are: Rehabilitation hospitals and units; LTCHs; psychiatric hospitals and units; children’s hospitals; cancer hospitals; extended neoplastic disease care hospitals, and hospitals located outside the 50 States, the District of Columbia, and Puerto Rico (that is, hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa). Religious nonmedical health care institutions (RNHICs) are also excluded from the IPPS.**
- **Sections 123(a) and (c) of the BBRA (Public Law (Pub. L.) 106–113) and section 307(b)(1) of the BIPA (Pub. L. 106–554) (as codified under section 1886(m)(1) of the Act), which provide for the development and implementation of a prospective payment system for payment for inpatient hospital services of LTCHs described in section 1886(d)(1)(B)(iv) of the Act.**
- **Sections 1814(l), 1820, and 1834(g) of the Act, which specify that payments are made to critical access hospitals (CAHs) (that is, rural hospitals or facilities that meet certain statutory requirements) for inpatient and outpatient services and that these payments are generally based on 101 percent of reasonable cost.**
- **Section 1886(a)(4) of the Act, which specifies that costs of approved educational activities are excluded from the operating costs of inpatient hospital services. Hospitals with approved graduate medical education (GME) programs are paid for the direct costs of GME in accordance with section 1886(h) of the Act.**
- **Section 1886(b)(3)(B)[viii] of the Act, which requires the Secretary to reduce the applicable percentage increase that would otherwise apply to the standardized amount applicable to a subsection (d) hospital for discharges occurring in a fiscal year if the hospital does not submit data on measures in a form and manner, and at a time, specified by the Secretary.**
- **Section 1886(k) of the Act, which provides for the establishment of a quality reporting program for hospitals described in section 1886(d)(1)(B)[v] of the Act, referred to as “PPS-exempt cancer hospitals.”**
- **Section 1886(o) of the Act, which requires the Secretary to establish a Hospital Value-Based Purchasing (VBP) Program, under which value-based incentive payments are made in a fiscal year to hospitals meeting performance standards established for a performance period for such fiscal year.**
- **Section 1886(p) of the Act, which establishes a Hospital-Acquired Condition (HAC) Reduction Program, under which payments to applicable hospitals are adjusted to provide an incentive to reduce hospital-acquired conditions.**
- **Section 1886(q) of the Act, as amended by section 15002 of the 21st Century Cures Act, which establishes the Hospital Readmissions Reduction Program. Under the program, payments for discharges from an applicable hospital as defined under section 1886(d) of the Act will be reduced to account for certain excess readmissions. Section 15002 of the 21st Century Cures Act directs the Secretary to compare hospitals with respect to the number of their Medicare-Medicaid dual-eligible beneficiaries (dual-eligible beneficiaries) in determining the extent of excess readmissions.**
- **Section 1886(r) of the Act, as added by section 3133 of the Affordable Care Act, which provides for a reduction to disproportionate share hospital (DSH) payments under section 1886(d)(5)(F) of the Act and for a new uncompensated care payment to eligible hospitals. Specifically, section 1886(r) of the Act requires that, for fiscal year 2014 and each subsequent fiscal year, subsection (d) hospitals that would otherwise receive a DSH payment made under section 1886(d)(5)(F) of the Act will receive two separate payments: (1) 25 percent of the amount they previously would have received under section 1886(d)(5)(F) of the Act for DSH (“the empirically justified amount”), and (2) an additional payment for the DSH hospital’s proportion of uncompensated care, determined as the product of three factors. These three factors are: (1) 75 percent of the payments that would otherwise be made under section 1886(d)(5)(F) of the Act; (2) 1 minus the percent change in the percent of individual who are uninsured; and (3) a hospital’s uncompensated care amount relative to the uncompensated
care amount of all DSH hospitals expressed as a percentage.

- Section 1886(m)(5) of the Act, which requires the Secretary to reduce by two percentage points the annual update to the standard Federal rate for discharges for a long-term care hospital (LTCH) during the rate year for LTCHs that do not submit data in the form, manner, and at a time, specified by the Secretary.

- Section 1886(m)(6) of the Act, as added by section 1206(a)(1) of the bipartisan pathway for sustainable growth rate (SGR) Reform Act of 2013 (Pub. L. 113–67) and amended by section 51005(a) of the Bipartisan Budget Act of 2018 (Pub. L. 115–123), which provided for the establishment of site-neutral payment rate criteria under the LTCH PPS, with implementation beginning in FY 2016. Section 51005(b) of the Bipartisan Budget Act of 2018 amended section 1886(m)(6)(B) by adding new clause (iv), which specifies that the IPPS comparable amount defined in clause (ii)(I) shall be reduced by 4.6 percent for FYs 2018 through 2026.

- Section 1899f of the Act, as added by section 2(a) of the Improving Medicare Post-Acute Care Transformation Act of 2014 (IMPACT Act) (Pub. L. 113–185), which provides for the establishment of standardized data reporting for certain post-acute care providers, including LTCHs.

- Section 1899 of the Act which established the Medicare Shared Savings Program (Shared Savings Program) to facilitate coordination and cooperation among providers and suppliers to improve the quality of care for Medicare fee-for-service (FFS) beneficiaries and reduce the rate of growth in expenditures under Medicare Parts A and B.

- Section 1902(a)(23) of the Act, which specifies Medicaid provider enrollment requirements. States may set reasonable standards relating to the qualifications of providers but may not restrict the right of beneficiaries to obtain services from any person or entity that is both qualified and willing to furnish such services.


The following is a summary of the major provisions in this proposed rule. In general, these major provisions are being proposed as part of the annual update to the payment policies and payment rates, consistent with the applicable statutory provisions. A general summary of the proposed changes in this proposed rule is presented in section I.D. of the preamble of this proposed rule.

a. Proposed MS–DRG Documentation and Coding Adjustment

Section 631 of the American Taxpayer Relief Act of 2012 (ATRA, Pub. L. 112–240) amended section 7(b)(1)(B) of Public Law 110–90 to require the Secretary to make a recoupment adjustment to the standardized amount of Medicare payments to acute care hospitals to account for changes in MS–DRG documentation and coding that do not reflect real changes in case-mix, totaling $11 billion over a 4-year period of FYs 2014, 2015, 2016, and 2017. The FY 2014 through FY 2017 adjustments represented the amount of the increase in aggregate payments as a result of not completing the prospective adjustment authorized under section 7(b)(1)(A) of Public Law 110–90 until FY 2013. Prior to the ATRA, this amount could not have been recovered under Public Law 110–90. Section 414 of the Medicare Access and CHIP Reauthorization Act of 2015 (MACRA) (Pub. L. 114–10) replaced the single positive adjustment we intended to make in FY 2018 with a 0.5 percent positive adjustment to the standardized amount of Medicare payments to acute care hospitals for FYs 2018 through 2023. The FY 2018 adjustment was subsequently adjusted to 0.4588 percent by section 15005 of the Bipartisan Budget Act of 2018 through 2023. Therefore, for FY 2022, we are proposing to make an adjustment of +0.5 percent to the standardized amount.

b. Proposed Changes to the New COVID–19 Treatments Add-On Payment (NCTAP)

In response to the COVID–19 PHE, we established the New COVID–19 Treatments Add-On Payment (NCTAP) under the IPPS for COVID–19 cases that meet certain criteria (85 FR 71157 and 71158). We believe that as drugs and biological products become available and are authorized for emergency use or approved by Food and Drug Administration (FDA) for the treatment of COVID–19 in the inpatient setting, it is appropriate to increase the current IPPS payment amounts to mitigate any potential financial disincentives for hospitals to provide new COVID–19 treatments during the PHE. Therefore, effective for discharges occurring on or after November 2, 2020 and until the end of the PHE for COVID–19, CMS established the NCTAP.

We anticipate that there might be inpatient cases of COVID–19, beyond the end of the PHE, for which payment based on the assigned MS–DRG may not adequately reflect the additional cost of new COVID–19 treatments. In order to continue to mitigate potential financial disincentives for hospitals to provide these new treatments, and to minimize any potential payment disruption immediately following the end of the PHE, we believe that the NCTAP should remain available for cases involving eligible treatments for the remainder of the fiscal year in which the PHE ends (for example, until September 30, 2022). At the same time, we also believe that any new technology add-on payments that may be approved for a COVID–19 treatment would also serve to mitigate any potential financial disincentives for hospitals to provide that new COVID–19 treatment, such that the NCTAP would no longer be needed for that same product.

Therefore, we are proposing to extend NCTAP for eligible products that are not approved for new technology add-on payments through the end of the fiscal year in which the PHE ends (for example, September 30, 2022). We also are proposing to discontinue the NCTAP for discharges on or after October 1, 2021 for a product that is approved for new technology add-on payments beginning FY 2022.

c. Use of FY 2020 or FY 2019 Data in the FY 2022 IPPS and LTCH PPS Ratesetting

For the IPPS and LTCH PPS ratesetting, our longstanding goal is always to use the best available data overall. In section I.F. of the preamble of this proposed rule we discuss our analysis of the best available data for use in the development of this FY 2022 IPPS/LTCH PPS proposed rule given the potential impact of the public health emergency (PHE) for the Coronavirus Disease (COVID–19). As discussed in section I.F. of the preamble of this proposed rule, we are proposing to use the FY 2019 data, such as the FY 2019 MedPAR file, for the FY 2022 ratesetting for circumstances where the FY 2020 data is significantly impacted by the COVID–19 PHE, primarily in that the utilization of inpatient services reflect generally markedly different utilization for certain types of services in FY 2020 than would have been expected in the absence of the PHE. In section I.O. of Appendix A of this proposed rule, we are also considering, as an alternative to this proposal, the use of the same FY 2020 data that we would ordinarily use for purposes of FY 2022 ratesetting, and which we may consider finalizing based on consideration of comments received.

d. Proposed Continuation of the Low Wage Index Hospital Policy

To help mitigate wage index disparities between high wage and low hospitals, in the FY 2020 IPPS/LTCH
would have been paid as Medicare DSH percent of the amount that otherwise previously would have received under the statutory formula for Medicare DSH payments in section 1886(d)(5)(F) of the Act. The remaining amount, equal to 75 percent of the amount that otherwise would have been paid as Medicare DSH payments, is paid as additional payments after the amount is reduced for changes in the percentage of individuals that are uninsured. Each Medicare DSH will receive an additional payment based on its share of the total amount of uncompensated care for all Medicare DSHs for a given time period.

In this proposed rule, we are proposing to update our estimates of the three factors used to determine uncompensated care payments for FY 2022. We are also proposing to continue to use uninsured estimates produced by CMS’ Office of the Actuary (OACT) as part of the development of the National Health Expenditure Accounts (NHEA) in the calculation of Factor 2. Consistent with the policy adopted in the FY 2021 IPPS/LTCH PPS final rule for FY 2022 and subsequent fiscal years, we are using a single year of data on uncompensated care costs from Worksheet S–10 of the FY 2018 cost reports to calculate Factor 3 in the FY 2022 methodology for all eligible hospitals with the exception of Indian Health Service (IHS) and Tribal hospitals and Puerto Rico hospitals. For IHS and Tribal hospitals and Puerto Rico hospitals we are proposing to continue to use the low-income insured days proxy to calculate Factor 3 for these hospitals for FY 2022. We are proposing certain methodological changes for calculating Factor 3 for FY 2022.

Additionally, we are proposing to revise our regulation governing the calculation of the Medicaid fraction of the DSH calculation. Under this proposal, patient days of individuals receiving benefits under a section 1115 waiver program would be counted in the numerator of the Medicaid fraction only if the patient directly receives inpatient hospital insurance coverage on that day under a waiver authorized under section 1115(a)(2) of the Act.

g. Reduction of Hospital Payments for Excess Readmissions

We are proposing to make changes to policies for the Hospital Readmissions Reduction Program, which was established under section 1886(q) of the Act, as amended by section 15002 of the 21st Century Cures Act. The Hospital Readmissions Reduction Program requires a reduction to a hospital’s base operating DRG payment to account for excess readmissions of selected applicable conditions. For FY 2017 and subsequent years, the reduction is based on a hospital’s risk-adjusted readmission rate during a 3-year period for acute myocardial infarction (AMI), heart failure (HF), pneumonia, chronic obstructive pulmonary disease (COPD), elective primary total hip arthroplasty/total knee arthroplasty (THA/TKA), and coronary artery bypass graft (CABG) surgery. In this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing the following policies: (1) To adopt a cross-program measure suppression policy; (2) to suppress the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) following Pneumonia Hospitalization measure (NOF #0506) for the FY 2023 program year; (3) to modify the remaining five condition-specific readmission measures to exclude COVID–19 diagnosed patients from the measure denominators, beginning with the FY 2023 program year; (4) to use the MedPAR data that aligns with the applicable period for FY 2022; (5) to automatically adopt the use of MedPAR data corresponding to the applicable period beginning with the FY 2023 program year and all subsequent program years, unless otherwise specified by the Secretary; and (6) to update the regulatory text to reflect that our Hospital Compare website has been renamed and is now referred to as Care Compare. We are clarifying our Extraordinary Circumstances Exceptions (ECE) policy, and we are also requesting public comment on opportunities to advance health equity through possible future stratification of results by race and ethnicity for condition/procedure-specific readmission measures and by expansion of standardized data collection to additional social factors, such as language preference and disability status. We are also seeking comment on mechanisms of incorporating other demographic characteristics into analyses that address and advance health equity, such as the potential to include administrative and self-reported data to measure co-occurring disability status.

h. Hospital Value-Based Purchasing (VBP) Program

Section 1886(o) of the Act requires the Secretary to establish a Hospital VBP Program under which value-based incentive payments are made in a fiscal year to hospitals based on their performance on measures established for a performance period for such fiscal year. In this proposed rule, we are proposing to: (1) Establish a measure suppression policy for the duration of the public health emergency for COVID–19; (2) suppress the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS), Medicare Spending Per Beneficiary (MSPB), and five Healthcare-Associated Infection (HAI) measures, for the FY 2022 Program year; and (3) suppress the Hospital 30-Day,
All-Cause, Risk-Standardized Mortality Rate Following Pneumonia (PN) Hospitalization (MORT–30–PN) measure for the FY 2023 program year. We are also proposing to revise the scoring and payment methodology for the FY 2022 program year such that hospitals’ Total Performance Scores will not include calculations based on these measures. We believe that awarding a TPS to any hospital based off the remaining measures that are not suppressed would not result in a fair national comparison and, as a result, are proposing not to award a TPS to any hospital for the FY 2022 program year. Instead, we are proposing to award each hospital a payment incentive multiplier that results in a value-based incentive payment that is equal to the amount withheld for the fiscal year (2 percent). We are proposing to remove the CMS Patient Safety and Adverse Events Composite (PSI 90) measure beginning with FY 2023 because the costs associated with the measure outweigh the benefit of its use in the program. We are also proposing to update the baseline periods for certain measures affected by the ECE granted in response to the COVID–19 PHE and to make a technical update to our terminology used in the Hospital VBP Program regulations.

i. Hospital-Acquired Condition (HAC) Reduction Program

Section 1886(p) of the Act establishes an incentive to hospitals to reduce the incidence of hospital-acquired conditions by requiring the Secretary to make an adjustment to payments to applicable hospitals, effective for discharges beginning on October 1, 2014. This 1-percent payment reduction applies to hospitals that rank in the worst-performing quartile (25 percent) of all applicable hospitals, relative to the national average, of conditions acquired during the applicable period and on all of the hospital’s discharges for the specified fiscal year. In this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to: (1) Clarify our ECE policy; (2) adopt a cross-program measure suppression policy; (3) apply that measure suppression policy to suppress certain program data; and (4) update the regulatory text to reflect that our Hospital Compare website has been renamed and is now referred to as Care Compare.

j. Hospital Inpatient Quality Reporting (IQR) Program

Under section 1886(b)(3)(B)(viii) of the Act, subsection (d) hospitals are required to report data on measures selected by the Secretary for a fiscal year in order to receive the full annual percentage increase that would otherwise apply to the standardized amount applicable to discharges occurring in that fiscal year. In this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to make several changes. We are proposing to adopt five new measures: (1) A new structural measure—Maternal Morbidity Structural Measure—beginning with a shortened reporting period from October 1, 2021 through December 31, 2021 affecting the CY 2021 reporting period/ FY 2022 payment determination; (2) the Hybrid Hospital-Wide All-Cause Risk Standardized Mortality (Hybrid HWM) measure in a stepwise fashion, beginning with a voluntary reporting period from July 1, 2022 through June 30, 2023, and followed by mandatory reporting from July 1, 2023 through June 30, 2024, affecting the FY 2026 payment determination and for subsequent years; (3) the COVID–19 Vaccination Coverage Among Health Care Personnel (HCP) measure beginning with a shortened reporting period from October 1, 2021 through December 31, 2021, affecting the CY 2021 reporting period/FY 2023 payment determination and with quarterly reporting beginning with the FY 2024 payment determination and for subsequent years; and two medication-related adverse event eCQMs beginning with the CY 2023 reporting period/FY 2025 payment determination; (4) Hospital Harm-Severe Hypoglycemia eCQM (NQF #3503e); and (5) Hospital Harm-Severe Hypoglycemia eCQM (NQF #3535).

We are also proposing to remove five measures: (1) Death Among Surgical Inpatients with Serious Treatable Complications (CMS PSI–04) beginning with the FY 2023 payment determination; (2) Exclusive Breast Milk Feeding (PC–05) (NQF #0480) beginning with the FY 2026 payment determination; (3) Admit Decision Time to ED Departure Time for Admitted Patients (ED–2) (NQF #0497) beginning with the FY 2026 payment determination; (4) Intensive Care Unit Structural Measure—beginning with the FY 2026 payment determination; (4) Anticoagulation Therapy for Atrial Fibrillation/Flutter eCQM (STK–03) (NQF #0436); and (5) Discharged on Statin Medication eCQM (STK–06) (NQF #0439).

We are requesting comment from stakeholders on the potential future development and inclusion of two measures: (1) A mortality measure for patients admitted with COVID–19; and (2) a patient-reported outcomes measure following elective total hip and/or total knee arthroplasty (THA/TKA). We are also requesting comment from stakeholders on ways we can leverage measures to address gaps in existing health equity generally as well as comment on: (1) Potential future confidential stratified reporting for the Hospital-Wide All-Cause Unplanned Readmission (HWR) measure using both dual eligibility and race/ethnicity; and (2) potential future reporting of a structural measure to assess the degree of hospital leadership engagement in health equity performance data. In this proposed rule, we are also requesting feedback across programs on potential actions and priority areas that would enable the continued transformation of our quality measurement toward greater digital capture of data and use of the FHIR standard.

In addition, beginning with the CY 2023 reporting period/FY 2025 payment determination, we are proposing to require hospitals to use certified technology that has been updated consistent with the 2015 Edition Cures Update and clarifying that certified technology must support the reporting requirements for all available eCQMs. We also are proposing that hybrid measures comply with the same certification requirements as eCQMs, specifically that EHR technology must be certified to the 2015 Edition Cures Update. We are proposing an update to revise 42 CFR 412.140(a)(2) and 42 CFR 412.140(e)(2)(iii) replacing the terms “Security Administrator” and “System Administrator” with the term “security official” in alignment with other CMS quality programs. Due to an updated URL for the QualityNet website from QualityNet.org to QualityNet.cms.gov, we are also proposing to revise Hospital IQR Program regulations at 42 CFR 412.140(a)(1) and 42 CFR 412.140(c)(2)(i) to reflect updates to the QualityNet website. Lastly, we are proposing to extend the effects of the educational review process for chart-abstracted measures beginning with validations affecting the FY 2024 payment determination.

k. PPS-Exempt Cancer Hospital Quality Reporting Program

Section 1886(k)(1) of the Act requires, for purposes of FY 2014 and each subsequent fiscal year, that a hospital described in section 1886(d)(1)(B)(v) of the Act (a PPS-exempt cancer hospital, or a PCH) submit data in accordance with section 1886(k)(2) of the Act with respect to such fiscal year. There is no financial impact to PCH Medicare payment if a PCH does not participate.

In this proposed rule, we are proposing to remove the Oncology: Plan of Care for Pain—Medical Oncology and...
Radiation Oncology (NQF #0383) (PCH–15) measure by the end of CY 2024 program year, adopting the COVID–19 Vaccination Coverage Among Healthcare Personnel measure by the end of CY 2023 program year, make a technical update to the terminology we use in the program, and codify existing PCHQMR Program policies in our regulations.

I. Medicare Promoting Interoperability Program

For purposes of reducing the burden on eligible hospitals and CAHs, we are proposing several changes to the Medicare Promoting Interoperability Program. Specifically, we are proposing:

1. To continue the EHR reporting period of a minimum of any continuous 90-day period for new and returning eligible hospitals and CAHs for CY 2023 and to increase the EHR reporting period to a minimum of any continuous 180-day period for new and returning eligible hospitals and CAHs for CY 2024;
2. To modify the EHR measuring with the EHR reporting period in CY 2022;
3. To add a new Health Information Exchange (HIE) Bi-Directional Exchange measure as a yes/no attestation, to the HIE objective as an alternative to the two existing measures beginning with the EHR reporting period in CY 2022;
4. To require reporting a “yes” on four of the existing Public Health and Clinical Data Exchange Objective measures (Syndromic Surveillance Reporting, Immunization Registry Reporting, Electronic Case Reporting, and Electronic Reportable Laboratory Result Reporting) or requesting the applicable exclusions;
5. To add a new measure to the Protect Patient Health Information objective that requires eligible hospitals and CAHs to attest to having completed an annual assessment of SAFER Guides for CY 2022;
6. To remove attestation statements 2 and 3 from the Promoting Interoperability Program’s prevention of information blocking requirement;
7. To increase the minimum required score for the objectives and measures from 50 points to 60 points (out of 100 points) to meet the meaningful user criteria,
8. To reduce the score requirement for the objectives and measures from 85 points to 70 points (out of 100 points) in order to be considered a meaningful EHR user; and
9. To adopt two new eCQMs to the Medicare Promoting Interoperability Program’s eCQM measure set beginning with the reporting period in CY 2023, in addition to removing four eCQMs from the measure set beginning with the reporting period in CY 2024 which is in alignment with the proposals for the Hospital IQR Program. We are amending our regulation texts as necessary to incorporate several of these proposed changes.

m. Proposed Repeal of Market-Based Data Collection and Market-Based MS–DRG Relative Weight Methodology

As discussed in section V.L. of the preamble of this proposed rule, we are proposing to repeal the requirement that a hospital report on the Medicare cost report the median payer-specific negotiated charge that the hospital has negotiated with all of its MA organization payers, by MS–DRG, for cost reporting periods ending on or after January 1, 2021. We are also proposing to repeal the market-based MS–DRG relative weight methodology adopted for calculating the MS–DRG relative weights effective in FY 2024, and to continue using the existing cost-based methodology for calculating the MS–DRG relative weights for FY 2024 and subsequent fiscal years. Lastly, we are soliciting comment on alternative approaches or data sources that could be used in Medicare fee-for-service (FFS) ratesetting. The proposed repeal of these policies would result in a reduction of 63,780 annual burden hours for all hospitals.

n. Proposed Implementation of Sections 126, 127 and 131 of the Consolidated Appropriations Act (CAA) of 2021

In this proposed rule, we are including proposals to implement sections 126, 127 and 131 of the Consolidated Appropriations Act (CAA) of 2021. Section 126(a) of the CAA amended section 1886(h) of the Act by adding a new section 1886(b)(1)(E) of the Act requiring the distribution of additional residency positions to qualifying hospitals. Section 127 of the CAA amended section 1886(h)(4)(H)(i) of the Act to specify that in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural track) in a rural area, the hospital, and each such hospital located in a rural area that participates in such a training, is allowed to receive an adjustment to its full-time equivalent (FTE) resident limit. Section 131 of the CAA amended section 1886(h)(2)(F) of the Act to provide an opportunity to hospitals with such extremely low or $0 per resident amounts (PRAs) that meet certain criteria to reset and establish new PRAs if the hospital trains resident(s) in a cost reporting period beginning on or after enactment (December 27, 2020) and before the date that is 5 years after enactment (December 26, 2025). Section 131 also amended section 1886(h)(4)(H)(j) of the Act to provide an opportunity for hospitals that meet certain criteria and that have very small FTE resident caps to replace those caps if the Secretary determines the hospital begins training residents in a new program beginning on or after enactment (December 27, 2020) and before 5 years after enactment (December 26, 2025). We refer readers to section V.J.2. of this proposed rule for rule for a summary of the provisions of sections 126, 127, and 131 of the CAA that we are proposing to implement in this proposed rule.

o. Proposed Changes to Organ Acquisition Payment Policy

In section X.B.2.h. of the preamble of this proposed rule, we are proposing to revise and codify the Medicare usable organ counting policy to count only organs transplanted into Medicare beneficiaries so that Medicare more accurately records and pays its share of organ acquisition costs.

p. Medicare Shared Savings Program

We are proposing to make changes to policies for the Shared Savings Program, which was established under section 1899 of the Act, to allow eligible ACOs participating in the BASIC track’s glide path the option to elect to forgo automatic advancement along the glide path’s increasing levels of risk and potential reward for performance year (PY) 2022. Under this proposal, prior to the automatic advancement for FY 2022, an eligible ACO may elect to remain in the same level of the BASIC track’s glide path in which it participated during FY 2021. For PY 2023, an ACO that elects this advancement deferral option would be automatically advanced to the level of the BASIC track’s glide path in which it would have participated during FY 2023 if it had advanced automatically to the required level for FY 2022 (unless the ACO elects to advance more quickly before the start of FY 2023).

3. Summary of Costs and Benefits

The following table provides a summary of the costs, savings, benefits associated with the major provisions described in section I.A.3. of the preamble of this proposed rule.

BILLING CODE 4120–01–P
<table>
<thead>
<tr>
<th>Provision Description</th>
<th>Description of Costs, Transfers, Savings, and Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Adjustment for MS-DRG Documentation and Coding Changes</td>
<td>Section 414 of the MACRA replaced the single positive adjustment we intended to make in FY 2018 once the recoupment required by section 631 of the ATRA was complete with a 0.5 percentage point positive adjustment to the standardized amount of Medicare payments to acute care hospitals for FYs 2018 through 2023. (The FY 2018 adjustment was subsequently adjusted to 0.4588 percentage point by section 15005 of the 21st Century Cures Act.) For FY 2022, we are proposing to make an adjustment of +0.5 percentage point to the standardized amount consistent with the MACRA.</td>
</tr>
<tr>
<td>Proposed Changes to the New COVID-19 Treatments Add-on Payment</td>
<td>In response to the COVID-19 PHE, CMS established the New COVID-19 Treatments Add-on Payment (NCTAP) under the IPPS for COVID-19 cases that meet certain criteria (85 FR 71155).</td>
</tr>
</tbody>
</table>

We anticipate inpatient cases of COVID-19 beyond the end of the PHE for which payment based on the assigned MS-DRG may not adequately reflect the additional cost of new COVID-19 treatments. In order to continue to mitigate potential financial disincentives for hospitals to provide these new treatments, and to minimize any potential payment disruption immediately following the end of the PHE, we believe that the NCTAP should remain available for cases involving eligible treatments for the remainder of the fiscal year in which the PHE ends (for example, until September 30, 2022). At the same time, we also believe that any new technology add-on payments that may be approved for a COVID-19 treatment would also serve to mitigate any potential financial disincentives for hospitals to provide that new COVID-19 treatment, such that the NCTAP would no longer be needed for that same product.

Therefore, we are proposing to extend the NCTAP for eligible products that are not approved for new technology add-on payments through the end of the fiscal year in which the PHE ends (for example, until September 30, 2022). We also are proposing to discontinue the NCTAP for discharges on or after October 1, 2021 for a product that is approved for new technology add-on payments beginning FY 2022.

On one extreme, if all of the new COVID-19 treatments decrease the net cost of hospitalizations (for example, due to shortened lengths of stay), including the cost of the new treatment, below the Medicare payment for discharges after the end of the PHE and through the end of the fiscal year in which the PHE ends, then there would be no NCTAP made and no additional cost to the Medicare program as a result of this proposed extension. On the other extreme, if all of the new COVID-19 treatments result in the net cost of hospitalizations that exceed the outlier threshold (for example, due to the cost of the new treatment) for discharges after the end of the PHE and through the end of the fiscal year in which the PHE ends, the cost to the Medicare program would be the sum over all such NCTAP cases of 0.65 times the outlier threshold for each case. Given it is unknown
<table>
<thead>
<tr>
<th>Provision Description</th>
<th>Description of Costs, Transfers, Savings, and Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Implementation of Section 9831 of the American Rescue Plan Act of 2021 (Pub. L. 117-2) Imputed Floor Wage Index Policy for All-Urban States</td>
<td>As discussed in section III.G.2. of the preamble of this proposed rule, we are proposing to implement section 9831 of the American Rescue Plan Act of 2021 (Pub. L. 117-2) which reinstates the imputed floor wage index policy for all-urban states effective for discharges on or after October 1, 2021 (FY 2022) with no expiration date using the methodology described in 42 CFR 412.64(h)(4)(vi) as in effect for FY 2018. Furthermore, section 1886(d)(3)(E)(iv)(III) of the Act (as added by section 9831(a)(2) of the American Rescue Plan Act of 2021) provides that the imputed floor wage index shall not be applied in a budget neutral manner. We estimate that our proposed implementation of section 9831 of the American Rescue Plan Act of 2021 would result in an estimated cost of approximately $0.2 billion for FY 2022.</td>
</tr>
<tr>
<td>Medicare DSH Payment Adjustment and Additional Payment for Uncompensated Care</td>
<td>For FY 2022, we are proposing to update our estimates of the three factors used to determine uncompensated care payments. We are proposing to continue to use uninsured estimates produced by OACT as part of the development of the NHEA in conjunction with more recently available data that takes into consideration the effects of the COVID-19 pandemic in the calculation of Factor 2. Consistent with the policy adopted in the FY 2021 IPPS/LTCH PPS final rule for FY 2022 and subsequent fiscal years, we are using a single year of data on uncompensated care costs from Worksheet S−10 for FY 2018 to determine Factor 3 for FY 2022 for all eligible hospitals with the exception of Indian Health Service (IHS) and Tribal hospitals and Puerto Rico hospitals. To determine the amount of uncompensated care for purposes of calculating Factor 3 for Puerto Rico hospitals and Indian Health Service and Tribal hospitals, we are proposing to continue to use data regarding low-income insured days for FY 2013. We project that the amount available to distribute as payments for uncompensated care for FY 2022 will decrease by approximately $662 million, as compared to our estimate of the uncompensated care payments that will be distributed in FY 2021. The uncompensated care payments have redistributive effects, based on a hospital’s uncompensated care amount relative to the uncompensated care amount for all hospitals that are projected to be eligible to receive Medicare DSH payments, and the calculated payment amount is not directly tied to a hospital’s number of discharges. Additionally, we are proposing to revise our regulation governing the calculation of the Medicaid fraction of the DSH calculation. Under this proposal, patient days of individuals receiving benefits under a section 1115 waiver program would be counted in the numerator of the Medicaid fraction only if the patient directly receives inpatient hospital insurance coverage on that day under a waiver authorized under section 1115(a)(2) of the Act. To the extent that this proposal has an impact on expenditures, that impact is not estimable because we do not have information on the number of section 1115 days by hospital which could be included in the Medicaid fraction absent the proposed revision to the regulation, which would be required to make an estimate.</td>
</tr>
<tr>
<td>Update to the IPPS Payment Rates and Other Payment Policies</td>
<td>As discussed in Appendix A of this proposed rule, acute care hospitals are estimated to experience an increase of approximately $2.507 billion in FY 2022, including operating, capital, and new technology changes, as well as increased GME payments as a result of section 131 of the Consolidated Appropriations Act of 2021 and increased payments as a result of the imputed floor provision in section 9831 of the American Rescue Plan Act of 2021, as modeled for this proposed rule.</td>
</tr>
<tr>
<td>Provision Description</td>
<td>Description of Costs, Transfers, Savings, and Benefits</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Update to the LTCH PPS Payment Rates and Other Payment</td>
<td>As discussed in Appendix A of this proposed rule, based on the best available data for the 363 LTCHs in our database, we estimate that the proposed changes to the payment rates and factors that we present in the preamble of and Addendum to this proposed rule, which reflect the proposed update to the LTCH PPS standard Federal payment rate for FY 2022, would result in an estimated increase in payments in FY 2022 of approximately $52 million.</td>
</tr>
<tr>
<td>Policies</td>
<td></td>
</tr>
<tr>
<td>Proposed Changes to the Hospital Readmissions Reduction</td>
<td>For FY 2021 and subsequent years, DRG reductions in payments are based on a hospital’s risk-adjusted readmission rate during a 3-year period for acute myocardial infarction (AMI), heart failure (HF), pneumonia, chronic obstructive pulmonary disease (COPD), elective primary total hip arthroplasty/elective knee arthroplasty (THA/TKA), and coronary artery bypass graft (CABG) surgery. Overall, in this proposed rule, we estimate that 2,545 hospitals would have their base operating DRG payments reduced by their determined proxy FY 2022 hospital-specific readmission adjustment. As a result, we estimate that the Hospital Readmissions Reduction Program would save approximately $553 million in FY 2022.</td>
</tr>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Value-Based Incentive Payments under the Hospital VBP</td>
<td>We estimate that there would be no net financial impact to the Hospital VBP Program for the FY 2022 program year in the aggregate because, by law, the amount available for value-based incentive payments under the program in a given year must be equal to the total amount of base operating MS-DRG payment amount reductions for that year, as estimated by the Secretary. The estimated amount of base operating MS-DRG payment amount reductions for the FY 2022 program year and, therefore, the estimated amount available for value-based incentive payments for FY 2022 discharges is approximately $1.9 billion.</td>
</tr>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Proposed Changes to the HAC Reduction Program</td>
<td>A hospital’s Total HAC Score and its ranking in comparison to other hospitals in any given year depend on several different factors. We are making no changes to the scoring methodology, which will continue to use the Winsorized z-score and equal measure weights approaches to determine the worst-performing quartile of hospitals. Any significant impact due to the HAC Reduction Program changes for FY 2022, including which hospitals will receive the adjustment, will depend on the actual experience of hospitals in the Program. For example, a hospital with poor performance during CY 2020 may move out of the worst-performing quartile status (that is, not receive a payment reduction) due to the proposed measure suppression policy. In turn, this would lead to another hospital moving into the worst-performing quartile status. In a typical year, approximately 18 percent of hospitals experience a change in worst-performing quartile status from one year to the next. Preliminary analysis indicates a reduction in the percentage of hospitals experiencing a change in worst-performing quartile status due to the proposed measure suppression policy. We refer readers to section IX.1.7.a (3).c.</td>
</tr>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Proposed Changes to the Hospital Inpatient Quality</td>
<td>Across 3,300 IPPS hospitals, we estimate that our proposed changes for the Hospital IQR Program in this proposed rule would result in a total information collection burden increase of 2,475 hours associated with our proposed policies and updated burden estimates and a total cost increase of approximately $101,475 across a 4-year period from the CY 2022 reporting period/FY 2024 payment determination through the CY 2025 reporting period/FY 2027 payment determination.</td>
</tr>
<tr>
<td>Reporting (IQR) Program</td>
<td></td>
</tr>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Changes to the Medicare and Promoting Interoperability</td>
<td>Based on updated wage rates for 2019 from the Bureau of Labor Statistics, and an amended hourly staff usage from that of a lawyer to a medical records and health information technician role, we estimate that the proposed changes would result in a decrease of $607,893 for the annual information collection burden (total cost) in CY 2022.</td>
</tr>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Provision Description</td>
<td>Description of Costs, Transfers, Savings, and Benefits</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Proposed Implementation of Sections 126, 127, and 131 of the Consolidated Appropriations Act (CAA) of 2021</td>
<td>Section 1886(h) of the Act, as amended by sections 126, 127, and 131 of the CAA of 2021 (Pub. L. 116-260), provides for the distribution of additional residency positions (section 126), promotes a rural hospital GME funding opportunity (section 127), and requires resetting PRAs and FTE resident caps for certain hospitals after hosting medical resident rotatees for short durations (section 131). We refer readers to section V.X.2. of this proposed rule for a summary of the provisions of sections 126, 127 and 131 that we are proposing to implement in this proposed rule. We estimate that the proposal that we present in the preamble of this proposed rule to implement section 126 of the CAA would result in an estimated cost of approximately $1.830 billion from FY 2023 through FY 2031. We estimate that the proposal that we present in the preamble of this proposed rule to implement section 127 of the CAA would result in an estimated cost of approximately $0.130 billion from FY 2024 through FY 2031. We estimate that the proposal that we present in the preamble of this proposed rule to implement section 131 of the CAA would result in an estimated cost of approximately $1.380 billion from FY 2022 through FY 2031.</td>
</tr>
<tr>
<td>Market-Based MS-DRG Relative Weight Policy – Proposed Repeal</td>
<td>In section V.L. of the preamble of this proposed rule, we are proposing to repeal the requirement that hospitals report on the Medicare cost report the median payer-specific negotiated charge that the hospital has negotiated with all of its MA organization payers, by MS-DRG, for cost reporting periods ending on or after January 1, 2021. We are also proposing to repeal the market-based MS-DRG relative weight methodology adopted for calculating the MS-DRG relative weights effective in FY 2024. We previously estimated total annual burden hours for this policy are as follows: 3,189 hospitals times 20 hours per hospital equals 63,780 annual burden hours and $4,315,993. Therefore, a repeal of this policy would result in a reduction of 63,780 annual burden hours for all hospitals. We refer readers to section XI.B.11. of the preamble of this proposed rule for further analysis of this assessment.</td>
</tr>
<tr>
<td>Proposed Changes to Organ Acquisition Payment Policy</td>
<td>In section X.B.2.h. of the preamble of this proposed rule, we are proposing to revise and codify the Medicare usable organ counting policy to count only organs transplanted into Medicare beneficiaries so that Medicare more accurately records and pays its share of organ acquisition costs. We estimate a cost savings to the Medicare trust fund of $230 million in FY 2022, $1.74 billion over 5 years, and $4.150 billion over 10 years. We refer readers to section X.B.2.h. for further analysis of this assessment.</td>
</tr>
<tr>
<td>Changes to the Medicare Shared Savings Program</td>
<td>In section I.H.12 of the Appendix A of this proposed rule, we describe the estimated impacts of our proposed changes to the Shared Savings Program to extend the flexibility for eligible ACOs to elect to “freeze” their participation level along the BASIC track’s glide path for PY 2022. The net effect of offering this flexibility is estimated to be a $90 million reduction in Federal spending, with the reduction ranging from $50 to $140 million.</td>
</tr>
</tbody>
</table>
B. Background Summary

1. Acute Care Hospital Inpatient Prospective Payment System (IPPS)

Section 1886(d) of the Act sets forth a system of payment for the operating costs of acute care hospital inpatient stays under Medicare Part A (Hospital Insurance) based on prospectively set rates. Section 1886(g) of the Act requires the Secretary to use a prospective payment system (PPS) to pay for the capital-related costs of inpatient hospital services for these “subsection (d) hospitals.” Under these PPSs, Medicare payment for hospital inpatient operating and capital-related costs is made at predetermined, specific rates for each hospital discharge. Discharges are classified according to a list of diagnosis-related groups (DRGs).

The base payment rate is comprised of a standardized amount that is divided into a labor-related share and a nonlabor-related share. The labor-related share is adjusted by the wage index applicable to the area where the hospital is located. If the hospital is located in Alaska or Hawaii, the nonlabor-related share is adjusted by a cost-of-living adjustment factor. This base payment rate is multiplied by the DRG relative weight.

If the hospital treats a high percentage of certain low-income patients, it receives a percentage add-on payment applied to the DRG-adjusted base payment rate. This add-on payment, known as the disproportionate share hospital (DSH) adjustment, provides for a percentage increase in Medicare payments to hospitals that qualify under either of two statutory formulas designed to identify hospitals that serve a disproportionate share of low-income patients. For qualifying hospitals, the amount of this adjustment varies based on the outcome of the statutory calculations. The Affordable Care Act revised the Medicare DSH payment methodology and provides for a new additional Medicare payment beginning on October 1, 2013, that considers the amount of uncompensated care furnished by the hospital relative to all other qualifying hospitals.

If the hospital is training residents in an approved residency program(s), it receives a percentage add-on payment for each case paid under the IPPS, known as the indirect medical education (IME) adjustment. This percentage varies, depending on the ratio of residents to beds.

Additional payments may be made for cases that involve new technologies or medical services that have been approved for special add-on payments. In general, to qualify, a new technology or medical service must demonstrate that it is a substantial clinical improvement over technologies or services otherwise available, and that, absent an add-on payment, it would be inadequately paid under the regular DRG payment. In addition, certain transformative new devices and certain antimicrobial products may qualify under an alternative inpatient new technology add-on payment pathway by demonstrating that, absent an add-on payment, they would be inadequately paid under the regular DRG payment.

The costs incurred by the hospital for a case are evaluated to determine whether the hospital is eligible for an additional payment as an outlier case. This additional payment is designed to protect the hospital from large financial losses due to unusually expensive cases. Any eligible outlier payment is added to the DRG-adjusted base payment rate, plus any DSH, IME, and new technology or medical service add-on adjustments. Although most hospitals under the IPPS are made on the basis of the standardized amounts, some categories of hospitals are paid in whole or in part based on their hospital-specific rate, which is determined from their costs in a base year.

For example, sole community hospitals (SCHs) receive the higher of a hospital-specific rate based on their costs in a base year (the highest of FY 1982, FY 1987, FY 1996, or FY 2006) or the IPPS Federal rate based on the standardized amount. SCHs are the sole source of care in their areas. Specifically, section 1886(d)(5)(D)(iii) of the Act defines an SCH as a hospital that is located more than 35 road miles from another hospital or that, by reason of factors such as an isolated location, weather conditions, travel conditions, or absence of other like hospitals (as determined by the Secretary), is the sole source of hospital inpatient services reasonably available to Medicare beneficiaries. In addition, certain rural hospitals previously designated by the Secretary as essential access community hospitals are considered SCHs.

Under current law, the Medicare-dependent, small rural hospital (MDH) program is effective through FY 2022. For discharges occurring on or after October 1, 2007, but before October 1, 2022, an MDH receives the higher of the Federal rate or the Federal rate plus 75 percent of the amount by which the Federal rate is exceeded by the highest of its FY 1982, FY 1987, or FY 2002 hospital-specific rate. MDHs are a major source of care for other Medicare beneficiaries in their areas. Section 1886(d)(5)(G)(iv) of the Act defines an MDH as a hospital that is located in a rural area (or, as amended by the Bipartisan Budget Act of 2018, a hospital located in a State with no rural area that meets certain statutory criteria), has not more than 100 beds, is not an SCH, and has a high percentage of Medicare discharges (not less than 60 percent of its inpatient days or discharges in its cost reporting year beginning in FY 1987 or in two of its three most recently settled Medicare cost reporting years).

Section 1886(g) of the Act requires the Secretary to pay for the capital-related costs of inpatient hospital services in accordance with a prospective payment system established by the Secretary. The basic methodology for determining capital prospective payments is set forth in our regulations at 42 CFR 412.308 and 412.312. Under the capital IPPS, payments are adjusted by the same DRG for the case as they are under the operating IPPS. Capital IPPS payments are also adjusted for IME and DSH, similar to the adjustments made under the operating IPPS. In addition, hospitals may receive outlier payments for those cases that have unusually high costs.

The existing regulations governing payments to hospitals under the IPPS are located in 42 CFR part 412, subparts A through M.

2. Hospitals and Hospital Units Excluded From the IPPS

Under section 1886(d)(1)(B) of the Act, as amended, certain hospitals and hospital units are excluded from the IPPS. These hospitals and units are: Inpatient rehabilitation facility (IRF) hospitals and units; long-term care hospitals (LTCHs); psychiatric hospitals and units; children’s hospitals; cancer hospitals; extended neoplastic disease care hospitals, and hospitals located outside the 50 States, the District of Columbia, and Puerto Rico (that is, hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa). Religious nonmedical health care institutions (RNHClgs) are also excluded from the IPPS. Various sections of the Balanced Budget Act of 1997 (BBA) (Pub. L. 105–33), the Medicare, Medicaid and SCHIP [State Children’s Health Insurance Program] Balanced Budget Refinement Act of 1999 (BBRA, Pub. L. 106–113), and the Medicare, Medicaid, and SCHIP Benefits Improvement and Protection Act of 2000 (BIPA, Pub. L. 106–554) provide for the implementation of PPSs for IRF hospitals and units, LTCHs, and psychiatric hospitals and units (referred to as inpatient psychiatric facilities (IPFs)).
updates to the LTCH PPS are included along with the IPPS annual update in this document. Updates to the IRF PPS and IFP PPS are issued as separate documents.) Children's hospitals, cancer hospitals, hospitals located outside the 50 States, the District of Columbia, and Puerto Rico (that is, hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa), and KNHCIs continue to be paid solely under a reasonable cost-based system, subject to a rate-of-increase ceiling on inpatient operating costs. Similarly, extended neoplastic disease care hospitals are paid on a reasonable cost basis, subject to a rate-of-increase ceiling on inpatient operating costs.

The existing regulations governing payments to excluded hospitals and hospital units are located in 42 CFR parts 412 and 413.

3. Long-Term Care Hospital Prospective Payment System (LTCH PPS)

The Medicare prospective payment system (PPS) for LTCHs applies to hospitals described in section 1886(d)(1)(B)(iv) of the Act, effective for cost reporting periods beginning on or after October 1, 2002. The LTCH PPS was established under the authority of sections 123 of the BBRA and section 307(b) of the BIPA (as codified under section 1886(m)(1) of the Act). Section 1206(a) of the Pathway for SGR Reform Act of 2013 (Pub. L. 113–67) established the site neutral payment rate under the LTCH PPS, which made the LTCH PPS a dual rate payment system beginning in FY 2016. Under this statute, effective for LTCH’s cost reporting periods beginning in FY 2016 cost reporting period, LTCHs are generally paid for discharges at the site neutral payment rate unless the discharge meets the patient criteria for payment at the LTCH PPS standard Federal payment rate. The existing regulations governing payment under the LTCH PPS are located in 42 CFR part 412, subpart O. Beginning October 1, 2009, we issue the annual updates to the LTCH PPS in the same documents that update the IPPS.

4. Critical Access Hospitals (CAHs)

Under sections 1814(l), 1820, and 1834(g) of the Act, payments made to critical access hospitals (CAHs) (that is, rural hospitals or facilities that meet certain statutory requirements) for inpatient and outpatient services are generally based on 101 percent of reasonable cost. Reasonable cost is determined under the provisions of section 1861(v) of the Act and existing regulations under 42 CFR part 413.

5. Payments for Graduate Medical Education (GME)

Under section 1886(a)(4) of the Act, costs of approved educational activities are excluded from the operating costs of inpatient hospital services. Hospitals with approved graduate medical education (GME) programs are paid for the direct costs of GME in accordance with section 1886(h) of the Act. The amount of payment for direct GME costs for a cost reporting period is based on the hospital’s number of residents in that period and the hospital’s costs per resident in a base year. The existing regulations governing payments to the various types of hospitals are located in 42 CFR part 413.

C. Summary of Provisions of Recent Legislation That Would Be Implemented in This Proposed Rule


Section 414 of the Medicare Access and CHIP Reauthorization Act of 2015 (MACRA, Pub. L. 114–10) specifies a 0.5 percent positive adjustment to the standardized amount of Medicare payments to acute care hospitals for FYs 2018 through 2023. These adjustments follow the recoupment adjustment to the standardized amounts under section 1886(d) of the Act based upon the Secretary’s estimates for discharges occurring from FYs 2014 through 2017 to fully offset $11 billion, in accordance with section 631 of the ATRA. The FY 2018 adjustment was subsequently adjusted to 0.4588 percent by section 15005 of the 21st Century Cures Act.


Sections 126, 127 and 131 of the Consolidated Appropriations Act, 2021 made a number of changes to various sections of the Act relating to payment for direct GME and IME costs to hospitals.

a. Section 126 of the Consolidated Appropriations Act, 2021

Section 126 amended section 1886(h) of the Act by adding a new section 1886(h)(9) requiring the distribution of additional residency positions to qualifying hospitals. Section 1886(h)(9)(A) requires that for FY 2023, and for each succeeding fiscal year until the aggregate number of full-time equivalent residency positions distributed is equal to 1,000, the Secretary shall initiate separate rounds of applications from hospitals for these additional residency positions. The Secretary is required, subject to certain provisions in the law, to increase the otherwise applicable resident limit for each qualifying hospital that submits a timely application by the number of positions that may be approved by the Secretary for that hospital. The Secretary is required to notify hospitals of the number of positions distributed to them by January 31 of the fiscal year of the increase, and the increase is effective beginning July 1 of that fiscal year. Section 1886(h)(9)(A) also limits the aggregate number of such positions made available in a single fiscal year across all hospitals to no more than 200.

In determining the qualifying hospitals for which an increase is provided, section 1886(h)(9)(B) requires the Secretary to take into account the demonstrated likelihood of the hospital filling the positions made available within the first 5 training years beginning after the date the increase would be effective, as determined by the Secretary.

Section 1886(h)(9)(B) of the Act also requires a minimum distribution for certain categories of hospitals. Specifically, the Secretary is required to distribute at least 10 percent of the aggregate number of total residency positions available to each of four categories of hospitals. Stated briefly, and discussed in greater detail in later in this proposed rule, the categories are as follows: (1) Hospitals located in rural areas or that are treated as being located in a rural area; (2) hospitals in which the reference resident level of the hospital is greater than the otherwise applicable resident limit; (3) hospitals in states with new medical schools or additional locations and branches of existing medical schools; and (4) hospitals that serve areas designated as Health Professional Shortage Areas (HPSAs). Additionally, section 1886(h)(9)(F)(ii) of the Act defines a qualifying hospital as a hospital in one of these four categories.

Section 1886(h)(9)(C) of the Act places certain limitations on the distribution of the residency positions. First, a hospital may not receive more than 25 additional full-time equivalent residency positions. Second, no increase in the otherwise applicable resident limit of a hospital may be made unless the hospital agrees to increase the total number of full-time equivalent residency positions under the approved medical residency training program of the hospital by the number of positions made available to that hospital.

b. Section 127 of the Consolidated Appropriations Act, 2021

Section 127 of the CAA amended section 1886(h)(4)(H)(iv) of the Act to
specify that in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural tracks) in a rural area, the hospital, and each such hospital located in a rural area that participates in such a training, is allowed to receive an adjustment to its full-time equivalent (FTE) resident limit.

c. Sections 131 of the Consolidated Appropriations Act, 2021

Section 131 of the CAA amended section 1886(h)(2)(F) of the Act to provide an opportunity to hospitals with such extremely low or 50 per resident amounts (PRAs) that meet certain criteria to reset and establish new PRAs if the hospital trains resident(s) in a cost reporting period beginning on or after enactment [December 26, 2020] and before the date that is 5 years after enactment [December 26, 2025]. Section 131 of the CAA also amended section 1886(h)(4)(H)(i) of the Act to provide an opportunity for hospitals that meet certain criteria and that have very small FTE resident caps to replace those caps if the Secretary determines the hospital begins training residents in a program year beginning on or after enactment [December 26, 2020] and before 5 years after enactment (December 26, 2025).

D. Summary of the Provisions of This Proposed Rule

In this proposed rule, we set forth proposed payment and policy changes to the Medicare IPPS for FY 2022 operating costs and capital-related costs of acute care hospitals and certain hospitals and hospital units that are excluded from IPPS. In addition, we set forth proposed changes to the payment rates, factors, and other payment and policy-related changes to programs associated with payment rate policies under the LTCH PPS for FY 2022.

The following is a general summary of the changes that we are proposing to make in this proposed rule.

1. Proposed Changes to MS–DRG Classifications and Recalibrations of Relative Weights

   In section II. of the preamble of this proposed rule, we include—
   - Proposed changes to MS–DRG classifications based on our yearly review for FY 2022.
   - Proposed adjustment to the standardized amounts under section 1886(d) of the Act for FY 2022 in accordance with the amendments made to section 7(b)(1)(B) of Public Law 110–90 by section 414 of the MACRA.
   - Proposed recalibration of the MS–DRG relative weights.
   - A discussion of the proposed FY 2022 status of new technologies approved for add-on payments for FY 2022, a presentation of our evaluation and analysis of the FY 2022 applicants for add-on payments for high-cost new medical services and technologies (including public input, as directed by Public Law 108–173, obtained in a town hall meeting) for applications not submitted under an alternative pathway, and a discussion of the proposed status of FY 2022 new technology applicants under the alternative pathways for certain medical devices and certain antimicrobial products.
   - A proposal to extend the New COVID–19 Treatments Add-on Payment (NCTAP) through the end of the fiscal year in which the PHE ends for certain products and discontinue NCTAP for products approved for new technology add-on payments in FY 2022.

2. Proposed Changes to the Hospital Wage Index for Acute Care Hospitals

   In section III. of the preamble of this proposed rule we are proposing to make revisions to the wage index for acute care hospitals and the annual update of the wage data. Specific issues addressed include, but were not limited to, the following:
   - The proposed FY 2022 wage index update using wage data from cost reporting periods beginning in FY 2018.
   - Calculation, analysis, and implementation of the proposed occupational mix adjustment to the wage index for acute care hospitals for FY 2022 based on the 2019 Occupational Mix Survey.
   - Proposed application of the rural floor and the frontier State floor, and continuation of the low wage index hospital policy.
   - Proposed implementation of the imputed floor wage index policy for all-urban states under section 9831 of the American Rescue Plan Act of 2021 (Pub. L. 117–2).
   - Proposed revisions to the wage index for acute care hospitals, based on hospital redesignations and reclassifications under sections 1886(d)(8)(B), (d)(8)(E), and (d)(10) of the Act.
   - Proposed revisions to the regulations at §412.278 regarding the Administrator’s Review of MGCRB decisions.
   - Proposed changes to rural reclassification cancellation requirements at §412.103(g).
   - Proposed adjustment to the wage index for acute care hospitals for FY 2022 based on commuting patterns of hospital employees who reside in a county and work in a different area with a higher wage index.
   - Proposed labor-related share for the proposed FY 2022 wage index.

3. Proposed Rebasings and Revising of the Hospital Market Baskets

   In section IV. of the preamble of this proposed rule, we are proposing to rebase and revise the hospital market baskets for acute care hospitals and update the labor-related share.

4. Other Decisions and Proposed Changes to the IPPS for Operating Costs

   In section V. of the preamble of this proposed rule, we discuss proposed changes or clarifications of a number of the provisions of the regulations in 42 CFR parts 412 and 413, including the following:
   - Proposed inpatient hospital update for FY 2022.
   - Proposed updated national and regional case-mix values and discharges for purposes of determining RRC status.
   - The statutorily required IME adjustment factor for FY 2022.
   - Proposed changes to the methodologies for determining Medicare DSH payments and the additional payments for uncompensated care.
   - Proposed requirements for payment adjustments under the Hospital Readmissions Reduction Program for FY 2022.
   - The provision of estimated and newly established performance standards for the calculation of value-based incentive payments, as well as a proposal to suppress multiple measures and provide net-neutral payment adjustments under the Hospital Value-Based Purchasing Program.
   - Proposed requirements for payment adjustments to hospitals under the HAC Reduction Program for FY 2022.
   - Discussion of and proposed changes relating to the implementation of the Rural Community Hospital Demonstration Program in FY 2022.
   - Proposed revisions to the regulations regarding the counting of days associated with section 1115 demonstration projects in the Medicaid fraction.
   - Proposals to implement provisions of the Consolidated Appropriations Act relating to payments to hospitals for direct graduate medical education (GME) and indirect medical education (IME) costs.
   - Proposed repeal of the market-based data collection requirement and market-based MS–DRG relative weight methodology.
5. Proposed FY 2022 Policy Governing the IPPS for Capital-Related Costs

In section VI. of the preamble to this proposed rule, we discuss the proposed payment policy requirements for capital-related costs and capital payments to hospitals for FY 2022.

6. Proposed Changes to the Payment Rates for Certain Excluded Hospitals: Rate-of-Increase Percentages

In section VII. of the preamble of this proposed rule, we discuss—
- Proposed changes to payments to certain excluded hospitals for FY 2022.
- Proposed continued implementation of the Frontier Community Health Integration Project (FCHIP) Demonstration.

7. Proposed Changes to the LTCH PPS

In section VIII. of the preamble of this proposed rule, we set forth proposed changes to the LTCH PPS Federal payment rates, factors, and other payment rate policies under the LTCH PPS for FY 2022.

8. Proposed Changes Relating to Quality Data Reporting for Specific Providers and Suppliers

In section IX. of the preamble of this proposed rule, we address the following:
- Proposed requirements for the Hospital Inpatient Quality Reporting (IQR) Program.
- Proposed changes to the requirements for the quality reporting program for PPS-exempt cancer hospitals (PCHQR Program).
- Proposed changes to the requirements under the LTCH Quality Reporting Program (QRP). We are also seeking information on CMS’s future plans to define digital quality measures (dQMs) for the LTCH QRP and on CMS’ continued efforts to close the health equity gap.
- Proposed changes to requirements pertaining to eligible hospitals and CAHs participating in the Medicare Promoting Interoperability Program.

9. Other Proposals Included in This Proposed Rule

Section X. of the preamble to this proposed rule includes the following proposals:
- Proposed changes pertaining to Medicaid enrollment of Medicare-enrolled providers and suppliers to 42 CFR part 455.410 and request for comment on provider experiences where state Medicaid agencies apply the Medicaid payment and coverage rules to a claim for a Medicare service rather than adjudicating the claim for Medicare cost-sharing liability.
- Proposed changes pertaining to Medicare’s share of organ acquisition costs transplanted into Medicare beneficiaries and the charges for services provided to cadaveric organ donors by donor community hospitals and transplant hospitals.
- Proposed changes pertaining to the Shared Savings Program that would allow eligible ACOs participating in the BASIC track’s glide path to maintain their current level of participation for FY 2022.

10. Other Provisions of This Proposed Rule

Section XI. of the preamble to this proposed rule includes our discussion of the MedPAC Recommendations.

Section XII. of the preamble to this proposed rule includes the following:
- A descriptive listing of the public use files associated with the proposed rule.
- The collection of information requirements for entities based on our proposals.
- Information regarding our responses to public comments.

11. Determining Prospective Payment Operating and Capital Rates and Rate-of-Increase Limits for Acute Care Hospitals

In sections II. and III. of the Addendum to this proposed rule, we set forth proposed changes to the amounts and factors for determining the proposed FY 2022 prospective payment rates for operating costs and capital-related costs for acute care hospitals. We proposed to establish the threshold amounts for outlier cases. In addition, in section IV. of the Addendum to this proposed rule, we address the proposed update factors for determining the rate-of-increase limits for cost reporting periods beginning in FY 2022 for certain hospitals excluded from the IPPS.

12. Determining Prospective Payment Rates for LTCHs

In section V. of the Addendum to the proposed rule, we set forth proposed changes to the amounts and factors for determining the proposed FY 2022 LTCH PPS standard Federal payment rate and other factors used to determine LTCH PPS payments under both the LTCH PPS standard Federal payment rate and the site neutral payment rate in FY 2022. We are proposing to establish the adjustments for the wage index, labor-related share, the cost-of-living adjustment, and high-cost outliers, including the applicable fixed-loss amounts and the LTCH cost-to-charge ratios (CCRs) for both payment rates.

13. Impact Analysis

In Appendix A of the proposed rule, we set forth an analysis of the impact the proposed changes would have on affected acute care hospitals, CAHs, LTCHs, PCHs and other entities.

14. Recommendation of Update Factors for Operating Cost Rates of Payment for Hospital Inpatient Services

In Appendix B of the proposed rule, as required by sections 1886(e)(4) and (e)(5) of the Act, we provide our recommendations of the appropriate percentage changes for FY 2022 for the following:
- A single average standardized amount for all areas for hospital inpatient services paid under the IPPS for operating costs of acute care hospitals (and hospital-specific rates applicable to SCHs and MDHs).
- Target rate-of-increase limits to the allowable operating costs of hospital inpatient services furnished by certain hospitals excluded from the IPPS.
- The LTCH PPS standard Federal payment rate and the site neutral payment rate for hospital inpatient services provided for LTCH PPS discharges.

15. Discussion of Medicare Payment Advisory Commission Recommendations

Under section 1805(b) of the Act, MedPAC is required to submit a report to Congress, no later than March 15 of each year, in which MedPAC reviews and makes recommendations on Medicare payment policies. MedPAC’s March 2021 recommendations concerning hospital inpatient payment policies address the update factor for hospital inpatient operating costs and capital-related costs for hospitals under the IPPS. We address these recommendations in Appendix B of this proposed rule. For further information relating specifically to the MedPAC March 2021 report or to obtain a copy of the report, contact MedPAC at (202) 220–3700 or visit MedPAC’s website at: http://www.medpac.gov.

E. Advancing Health Information Exchange

The Department of Health and Human Services (HHS) has a number of initiatives designed to encourage and support the adoption of interoperable health information technology and to promote nationwide health information exchange to improve health care and patient access to their health information. To further interoperability in post-acute care settings, CMS and the Office of the National Coordinator for Health Information Exchange to improve health care and patient access to their health information.
Information Technology (ONC) participate in the Post-Acute Care Interoperability Workgroup (PACIO http://pacioproject.org/) to facilitate collaboration with industry stakeholders to develop FHIR standards. These standards could support the exchange and reuse of patient assessment data derived from the Minimum Data Set (MDS), Inpatient Rehabilitation Facility-Patient Assessment Instrument (IRF–PAI), LTCH Continuity Assessment Record and Evaluation (CARE Data Set (LCDS), Outcome and Assessment Information Set (OASIS), and other sources. The PACIO Project has focused on FHIR implementation guides for functional status, cognitive status and new use cases on advance directives and speech language pathology. We encourage post-acute care (PAC) provider and health information technology (IT) vendor participation as the efforts advance.

The CMS Data Element Library (DEL) continues to be updated and serves as the authoritative resource for PAC assessment data elements and their associated mappings to health IT standards, such as Logical Observation Identifiable Names and Codes (LOINC) and Systematized Nomenclature of Medicine Clinical Terms (SNOMED).

The DEL furthered CMS’ goal of data standardization and interoperability. These interoperable data elements can reduce provider burden by allowing the use and exchange of healthcare data; supporting provider exchange of electronic health information for care coordination, person-centered care; and supporting real-time, data driven, clinical decision-making. Standards in the Data Element Library (https://del.cms.gov/DELWeb/pubHome) can be referenced on the CMS website and in the ONC Interoperability Standards Advisory (ISA). The 2021 ISA is available at https://www.healthit.gov/isa.

The 21st Century Cures Act (Cures Act) (Pub. L. 114–255, enacted December 13, 2016) requires HHS to take new steps to enable the electronic sharing of health information ensuring interoperability for providers and settings across the care continuum. The Cures Act includes a trusted exchange framework and common agreement (TEFCA) provision 1 that will enable the nationwide exchange of electronic health information across health information networks and provide an important way to enable bi-directional health information exchange in the future. For more information on current developments related to TEFCA, we refer readers to https://www.healthit.gov/topic/interoperability/trusted-exchange-framework-and-common-agreement and https://rce.sequoiaproject.org/.

The ONC final rule entitled “21st Century Cures Act: Interoperability, Information Blocking, and the ONC Health IT Certification Program” (85 FR 25642) published in the May 1, 2020 Federal Register, (hereinafter referred to as “ONC Cures Act Final Rule”) implemented policies related to information blocking as authorized under section 4004 of the 21st Century Cures Act. Information blocking is generally defined as a practice by a health IT developer of certified health IT, health information network, health information exchange, or health care provider that, except as required by law or specified by the HHS Secretary as a reasonable and necessary activity, is likely to interfere with access, exchange, or use of electronic health information. For a health care provider (as defined in 45 CFR 171.102), the definition of information blocking (see 45 CFR 171.103) specifies that the provider knows that the practice is unreasonable, as well as likely to interfere with access, exchange, or use of electronic health information. 2 To deter information blocking, health IT developers of certified health IT, health information networks and health information exchanges with the HHS Inspector General determines, following an investigation, have committed information blocking, are subject to civil monetary penalties of up to $1 million per violation. Appropriate disincentives for health care providers need to be established by the Secretary through rulemaking. Stakeholders can learn more about information blocking at https://www.healthit.gov/curesrule/final-rule-policy/information-blocking. ONC has posted information resources including fact sheets (https://www.healthit.gov/curesrule/resources/fact-sheets), frequently asked questions (https://www.healthit.gov/curesrule/resources/information-blocking-faqs), and recorded webinars (https://www.healthit.gov/curesrule/resources/webinars).

We invite providers to learn more about these important developments and how they are likely to affect LTCHs.

F. Use of FY 2020 or FY 2019 Data in the FY 2022 IPPS and LTCH PPS Ratesetting

We primarily use two data sources in the IPPS and LTCH PPS ratesetting: Claims data and cost report data. The claims data source is the MedPAR file, which includes fully coded diagnostic and procedure data. The cost report data source is the inpatient hospital bills for discharges in a fiscal year. Our goal is always to use the best available data overall for ratesetting. Ordinarily, the best available MedPAR data would be the most recent MedPAR file that contains claims from discharges for the fiscal year that is 2 years prior to the fiscal year that is the subject of the rulemaking. For FY 2022 ratesetting, under ordinary circumstances, the best available data would be the FY 2020 MedPAR file. The cost report data source is the Medicare hospital cost report data files from the most recent quarterly HCRIS release. For example, ordinarily, the best available cost report data used in relative weight calculations would be based on the cost reports beginning 3 fiscal years prior to the fiscal year that is the subject of the rulemaking. For the FY 2022 ratesetting, under ordinary circumstances, that would be the FY 2019 cost report data from HCRIS, which would contain many cost reports ending in FY 2020 based on each hospital’s cost reporting period.

The FY 2020 MedPAR claims file and the FY 2019 HCRIS dataset both contain data significantly impacted by the COVID–19 PHE, primarily in that the utilization of inpatient services was generally markedly different for certain types of services in FY 2020 than would have been expected in the absence of the PHE, as we discuss in this section. Accordingly, we question whether these data sources are the best available data to use for the FY 2022 ratesetting. One factor in assessing whether these data sources represent the best available data is to what extent the FY 2019 data from before the COVID–19 PHE is a better overall approximation of FY 2022 inpatient experience (for example, whether the share of total inpatient utilization for elective surgeries will be more similar to FY 2019 than to FY 2020), or alternatively, to what extent the FY 2020 data which include the COVID–19 PHE time period is a better overall approximation of FY 2022 inpatient experience (for example, whether the share of total inpatient utilization for respiratory infections will be more similar to FY 2020 than to FY 2019). For other types of actions (health IT developers of certified health IT and health information network or health information exchange, as defined in 45 CFR 171.102), the definition of “information blocking” (see 45 CFR 171.103) specifies that the actor “knows, or should know, that such practice is likely to interfere with access, exchange, or use of electronic health information.”

2019). Another factor is to what extent the decision to use the FY 2020 or FY 2021 data differentially impacts the FY 2022 IPPS ratesetting.

In order to help assess likely inpatient utilization in FY 2022, we examined the trend in the number of COVID–19 vaccinations in the United States as reported to the Centers for Disease Control (CDC) (see https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html, accessed April 16, 2021).

The U.S. COVID–19 Vaccination Program began December 14, 2020. As of April 15, 2021, 198.3 million vaccine doses have been administered. Overall, about 125.8 million people, or 37.9 percent of the U.S. population, have received at least one dose of vaccine as of this date. About 78.5 million people, or 23.6 percent of the U.S. population, have been fully vaccinated.3 As of April 15, the 7-day average number of administered vaccine doses reported to CDC per day was 3.3 million, a 10.3 percent increase from the previous week. As of April 15, 80 percent of people 65 or older have received at least one dose of vaccine; 63.7 percent are fully vaccinated. Nearly one-half (48.3 percent) of people 18 or older have received at least one dose of vaccine; 30.3 percent are fully vaccinated.

Nationally, COVID–19-related emergency department visits as well as both hospital admissions and current hospitalizations have risen among patients ages 18 to 64 years in recent weeks, but emergency department visits and hospitalizations among people ages 65 years or older have decreased.3 Likely demonstrating the important role vaccination plays in protecting against COVID–19.

As indicated by the CDC, COVID–19 vaccines are effective at preventing COVID–19.4 For example, a recent CDC report on the effectiveness of the Pfizer-BioNTech and Moderna COVID–19 vaccines when administered in real-world conditions found that after being fully vaccinated with either of these vaccines a person’s risk of infection is reduced by up to 90 percent. With respect to inpatient utilization in FY 2020, we believe that COVID–19 and the risk of disease were drivers of the different utilization patterns observed. Therefore, the continuing rapid increase in vaccinations coupled with the overall effectiveness of the vaccines leads us to conclude based on the information available to us at this time that there will be significantly lower risk of COVID–19 in FY 2022 and fewer hospitalizations for COVID–19 for Medicare beneficiaries in FY 2022 than there were in FY 2020. This calls into question the applicability of inpatient data from FY 2020 to the FY 2022 time period for hospitals paid under the IPPS and LTCH PPS.

We also reviewed CDC guidance to healthcare facilities during the COVID–19 PHE (see https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-hcf.html). In its most recent guidance, the CDC described how the COVID–19 pandemic has changed how health care is delivered in the United States and has affected the operations of healthcare facilities. Effects cited by the CDC include increases in patients seeking care for respiratory illnesses, patients deferring and delaying non-COVID–19 care, disruptions in supply chains, fluctuations in facilities’ occupancy, absenteeism among staff because of illness or caregiving responsibilities, and increases in mental health concerns.

In order to investigate the effects cited by the CDC, we examined the claims data from the FY 2020 MedPAR compared to the FY 2019 MedPAR. Overall, in FY 2020, inpatient admissions under the IPPS dropped by approximately 14 percent compared to FY 2019. Elective surgeries declined significantly, and the share of admissions for MS–DRGs associated with the treatment of COVID–19 increased. For example, the number of inpatient admissions for MS–DRG 470 (Major Hip and Knee Joint Replacement or Reattachment of Lower Extremity without MCC) dropped by 40 percent in FY 2020. Its share of inpatient admissions dropped from 4.0 percent in FY 2019 to 2.8 percent in FY 2020. The number of inpatient admissions for MS–DRG 177 (Respiratory Infections and Inflammations with MCC) increased by +133 percent. Its share of inpatient admissions increased from 0.8 percent in FY 2019 to 2.2 percent in FY 2020. This data analysis is consistent with the observations in the CDC’s guidance that COVID–19 increased the number of patients seeking care for respiratory illnesses, and caused patients to defer and delay non-COVID–19 care. We note that these observed changes in the claims data also extend to the cost reports submitted by hospitals that include the COVID–19 PHE time period, since those cost reports that extend into the COVID–19 PHE are based in part on the discharges that occurred during that time.

The effects noted by the CDC are specific to the pandemic and to the extent that the effects on healthcare facilities noted by the CDC are not expected to continue into FY 2022, it would suggest that the inpatient data from FY 2020 impacted by the COVID–19 PHE may be less suitable for use in the FY 2022 ratesetting.

We also considered the analysis of 2020 IPPS real case-mix included in the notice titled “CY 2021 Inpatient Hospital Deductible and Hospital and Extended Care Services Coinsurance Amounts” that appeared in the Federal Register on November 12, 2020 (85 FR 71916). Section 1813(b) of the Act prescribes the methodology for calculating the amount of the inpatient hospital deductible. The inpatient hospital deductible is an amount equal to the inpatient hospital deductible for the preceding CY, adjusted by the best estimate of the payment-weighted average of the applicable percentage increases used for updating the payment rates to hospitals, and adjusted to reflect changes in real case-mix.

To develop the adjustment to reflect changes in real case-mix, we first calculated an average case-mix for each hospital that reflected the relative costliness of that hospital’s mix of cases compared to those of other hospitals. We then computed the change in average case-mix for hospitals paid under the IPPS in FY 2020 compared to FY 2019, using Medicare bills from IPPS hospitals received as of July 2020. Those bills represented a total of about 6.1 million Medicare discharges for FY 2020 and provided the most recent case-mix data available at the time of that analysis. Based on these bills, the change in average case-mix in FY 2020 was 2.8 percent. Based on these bills and past experience, we expected the overall case-mix change to be 3.8 percent as the year progressed and more FY 2020 data became available.

Real case-mix is that portion of case-mix that is due to changes in the mix of cases in the hospital and not due to coding optimization. As stated in the November 2020 notice, COVID–19 has complicated the determination of real case-mix increase. COVID–19 cases typically group to higher-weighted MS–DRGs, and hospitals have experienced a concurrent reduction in cases that group

---

3 People who are fully vaccinated (formerly receiving 2 doses) represents the number of people who have received the second dose in a two-dose COVID–19 vaccine series or one dose of the single-dose J&J/Janssen COVID–19 vaccine.


---

We also reviewed CDC guidance to healthcare facilities during the COVID–19 PHE (see https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-hcf.html). In its most recent guidance, the CDC described how the COVID–19 pandemic has changed how health care is delivered in the United States and has affected the operations of healthcare facilities. Effects cited by the CDC include increases in patients seeking care for respiratory illnesses, patients deferring and delaying non-COVID–19 care, disruptions in supply chains, fluctuations in facilities’ occupancy, absenteeism among staff because of illness or caregiving responsibilities, and increases in mental health concerns.

In order to investigate the effects cited by the CDC, we examined the claims data from the FY 2020 MedPAR compared to the FY 2019 MedPAR. Overall, in FY 2020, inpatient admissions under the IPPS dropped by approximately 14 percent compared to FY 2019. Elective surgeries declined significantly, and the share of admissions for MS–DRGs associated with the treatment of COVID–19 increased. For example, the number of inpatient admissions for MS–DRG 470 (Major Hip and Knee Joint Replacement or Reattachment of Lower Extremity without MCC) dropped by 40 percent in FY 2020. Its share of inpatient admissions dropped from 4.0 percent in FY 2019 to 2.8 percent in FY 2020. The number of inpatient admissions for MS–DRG 177 (Respiratory Infections and Inflammations with MCC) increased by +133 percent. Its share of inpatient admissions increased from 0.8 percent in FY 2019 to 2.2 percent in FY 2020. This data analysis is consistent with the observations in the CDC’s guidance that COVID–19 increased the number of patients seeking care for respiratory illnesses, and caused patients to defer and delay non-COVID–19 care. We note that these observed changes in the claims data also extend to the cost reports submitted by hospitals that include the COVID–19 PHE time period, since those cost reports that extend into the COVID–19 PHE are based in part on the discharges that occurred during that time.

The effects noted by the CDC are specific to the pandemic and to the extent that the effects on healthcare facilities noted by the CDC are not expected to continue into FY 2022, it would suggest that the inpatient data from FY 2020 impacted by the COVID–19 PHE may be less suitable for use in the FY 2022 ratesetting.

We also considered the analysis of 2020 IPPS real case-mix included in the notice titled “CY 2021 Inpatient Hospital Deductible and Hospital and Extended Care Services Coinsurance Amounts” that appeared in the Federal Register on November 12, 2020 (85 FR 71916). Section 1813(b) of the Act prescribes the methodology for calculating the amount of the inpatient hospital deductible. The inpatient hospital deductible is an amount equal to the inpatient hospital deductible for the preceding CY, adjusted by the best estimate of the payment-weighted average of the applicable percentage increases used for updating the payment rates to hospitals, and adjusted to reflect changes in real case-mix.

To develop the adjustment to reflect changes in real case-mix, we first calculated an average case-mix for each hospital that reflected the relative costliness of that hospital’s mix of cases compared to those of other hospitals. We then computed the change in average case-mix for hospitals paid under the IPPS in FY 2020 compared to FY 2019, using Medicare bills from IPPS hospitals received as of July 2020. Those bills represented a total of about 6.1 million Medicare discharges for FY 2020 and provided the most recent case-mix data available at the time of that analysis. Based on these bills, the change in average case-mix in FY 2020 was 2.8 percent. Based on these bills and past experience, we expected the overall case-mix change to be 3.8 percent as the year progressed and more FY 2020 data became available.

Real case-mix is that portion of case-mix that is due to changes in the mix of cases in the hospital and not due to coding optimization. As stated in the November 2020 notice, COVID–19 has complicated the determination of real case-mix increase. COVID–19 cases typically group to higher-weighted MS–DRGs, and hospitals have experienced a concurrent reduction in cases that group
to lower weighted MS–DRGs. Both of these factors cause a real increase in case-mix. We compared the average case-mix for February 2020 through July 2020 (COVID–19 period) with average case-mix for October 2019 through January 2020 (pre-COVID–19 period). Since this increase applies for only a portion of CY 2020, we allocated this increase by the estimated discharges over the 2 periods—a 2.5 percent increase for FY 2020. The 1.3 percent residual case-mix increase is a mixture of real case-mix and coding optimization. Over the past several years, we have observed total case-mix increases of about 0.5 percent per year and have assumed that they are real. Thus, based on the information available, we expect that 0.5 percent of the residual 1.3 percent change in average case-mix for FY 2020 will be real. The combination of the 2.5 percent COVID–19 effect and the remaining residual 0.5 percent real case-mix increase results in an estimated 3.0 percent increase in real case-mix for FY 2020.

Because this analysis was based on Medicare bills from IPPS hospitals received as of July 2020, for this proposed rule, we calculated case-mix values for FY 2019 and FY 2020 based on the full year FY 2019 and FY 2020 MedPAR files to help assess the change in case-mix based on more complete data. For FY 2019 we calculated a case-mix value of 1.813 and for FY 2020 we calculated a case-mix value of 1.883, an increase in total case-mix of 3.9 percent. These were calculated using the MS–DRG relative weights in effect for those time periods.5 This is consistent with the estimate in the Notice of the CY 2021 Inpatient Hospital and Extended Care Services Coinsurance Amounts that the change in total case-mix for FY 2020 would be 3.8 percent when more complete data was available.

The increases in patients seeking care for respiratory illnesses and patients deferring and delaying non-COVID–19 care during FY 2020, the increasing number of vaccinations for COVID–19, and the high estimate of FY 2020 real case-mix growth all lead us to believe that FY 2020 is not the best overall approximation of inpatient experience in FY 2022. We believe that FY 2019 as the most recent complete FY prior to the COVID–19 PHE is a better approximation of FY 2022 inpatient experience.

As we indicated earlier, whether the data is a better overall approximation of FY 2022 inpatient experience is one factor in assessing which data source represents the best available data for the FY 2022 rulemaking. Another factor is to what extent the decision to use the FY 2019 or FY 2020 data differentially impacts the FY 2022 ratesetting. One way to assess this factor is to model the change in the total case-mix, which is a driver of spending, if our assumption regarding the FY 2022 inpatient experience used in calculating the MS–DRG relative weights turns out to be less accurate based on actual FY 2022 experience. We estimated the difference in the total case-mix if we calculated the MS–DRG relative weights based on the FY 2019 claims data and the actual utilization is ultimately more similar to the FY 2020 data, as compared to if we calculated the MS–DRG relative weights based on the FY 2020 data and the actual utilization is ultimately more similar to the FY 2019 data.

We first calculated a set of MS–DRG relative weights using an assumption that the FY 2022 inpatient experience would be similar to the FY 2019 data. Specifically, we used the proposed version 39 GROUPER (which would be applicable to discharges occurring in FY 2022) and the FY 2019 MedPAR data to calculate MS–DRG relative weights. We refer to these MS–DRG relative weights as the FY 2019-based weights.

We next calculated a set of MS–DRG relative weights using an assumption that the FY 2022 inpatient experience would be more similar to the FY 2020 data. Specifically, we used the proposed version 39 GROUPER and the FY 2020 MedPAR data to calculate MS–DRG relative weights. This is how we would ordinarily calculate the proposed FY 2022 MS–DRG relative weights. We refer to these MS–DRG relative weights as the FY 2020-based weights.

We then estimated the difference in case-mix under the FY 2019-based weights and the FY 2020-based weights if the FY 2022 inpatient experience ended up being the reverse of the assumption made when calculating that set of relative weights. In other words, we compared estimated case-mix calculated under four different scenarios. For the FY 2019-based weights, we calculated the case-mix using claims from the FY 2019 MedPAR as an approximation of the actual FY 2022 experience (Scenario A), and using claims from the FY 2020 MedPAR as an approximation of the actual FY 2022 experience (Scenario B). For the FY 2020-based weights, we calculated the case-mix using claims from the FY 2020 MedPAR as an approximation of the actual FY 2022 experience (Scenario C), and using claims from the FY 2019 MedPAR as an approximation of the actual FY 2022 experience (Scenario D). The results are shown in the following table.

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Assumed FY 2022 Experience for Relative Weights</th>
<th>Actual FY 2022 Experience</th>
<th>Case-mix</th>
<th>Assumption Matched Experience?</th>
<th>Percent Change in Case-Mix if Mismatch between Assumption and Actual Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>FY 2019</td>
<td>FY 2019</td>
<td>1.820</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>FY 2019</td>
<td>FY 2020</td>
<td>1.885</td>
<td>No</td>
<td>0.0%</td>
</tr>
<tr>
<td>C</td>
<td>FY 2020</td>
<td>FY 2020</td>
<td>1.885</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>FY 2020</td>
<td>FY 2019</td>
<td>1.816</td>
<td>No</td>
<td>-0.2%</td>
</tr>
</tbody>
</table>

5 Section 3710 of the Coronavirus Aid, Relief, and Economic Security (CARES) Act directs the Secretary of HHS to increase the weighting factor of the assigned DRG by 20 percent for an individual diagnosed with COVID–19 discharged during the COVID–19 PHE period. In order to make the case-mix values more comparable, the 20 percent increase is not included.
In Scenario A and Scenario C, there is by definition no differential impact on total case-mix due to a less accurate assumption made when the MS–DRG relative weights were calculated: The FY 2022 inpatient experience matches the assumption used when the MS–DRG relative weights were calculated. In Scenario B and Scenario D, it is the reverse of the assumption used when the MS–DRG relative weights were calculated.

In Scenario B, when the FY 2019-based weights were used, but the FY 2022 inpatient experience turns out to be more similar to FY 2020 data, the less accurate assumption does not differentially impact the modelled case-mix. This can be seen by comparing the modelled case-mix under Scenario B (1.885) with the modelled case-mix under Scenario C (also 1.885). In other words, if the FY 2019-based weights and inpatient experience turn out to be more similar to the FY 2020 data, then the modelled case-mix is approximately the same as if we had used the FY 2020-based weights. The results show that use of the FY 2019-based weights did not impact the modelled case-mix compared to using the FY 2020-based weights.

The same conclusion is not true of Scenario D where the FY 2020-based weights were used, but the FY 2022 inpatient experience turns out to be more similar to FY 2019 data. Here the less accurate assumption does differentially impact the modelled case-mix, by −0.2 percent. This can be seen by comparing the modelled case-mix under Scenario D (1.816) with the modelled case-mix under Scenario A (1.820). In other words, if we use the FY 2020-based weights, and FY 2022 inpatient experience turns out to be more similar to FY 2019 data, the modelled case-mix is −0.2 percent lower than if we had used the FY 2019-based weights. This shows that use of the FY 2020-based weights does impact the modelled case-mix compared to a result from using the FY 2019-based weights.

Putting aside that we believe FY 2019 is a more likely approximation of the FY 2022 inpatient experience for the reasons discussed earlier, the previous analysis indicates that the differential effect of the FY 2022 MS–DRG relative weights is more limited if the FY 2019-based weights are used than it is if the FY 2020-based weights are used, should the FY 2022 inpatient experience not match the assumption used to calculate the MS–DRG relative weights.

Another payment factor that is impacted by the use of the FY 2019 or FY 2020 data in the FY 2022 ratesetting is the outlier fixed-loss threshold. As discussed in section II.A.4.j, of this proposed rule, section 1886(d)(5)(A) of the Act provides for payments in addition to the basic prospective payments for “outlier” cases involving extraordinarily high costs. To qualify for outlier payments, a case must have costs greater than the sum of certain payments and the “outlier threshold” or “fixed-loss” amount (a dollar amount by which the costs of a case must exceed payments in order to qualify for an outlier payment). In accordance with section 1886(d)(5)(A)(iv) of the Act, outlier payments for any year are projected to be not less than 5 percent nor more than 6 percent of total operating DRG payments plus outlier payments. We target 5.1 percent within this range. Section 1886(d)(3)(B) of the Act requires the Secretary to reduce the average standardized amount by a factor to account for the estimated proportion of total DRG payments made to outlier cases. In other words, outlier payments are prospectively estimated to be budget neutral overall under the IPPS.6

Under an assumption that the FY 2022 inpatient experience will be more similar to FY 2019 data, we estimate an outlier fixed-loss amount of $30,967. Under an assumption that FY 2022 inpatient experience will be more similar to FY 2020 data, we estimate an outlier fixed-loss amount of $36,843, a difference of $5,876 or approximately 20 percent higher. Again, putting aside that we believe FY 2019 is a better approximation of the FY 2022 inpatient experience for the reasons discussed earlier, the difference between the two estimated outlier fixed-loss amounts means there is a consequence to making a decision as to the best available data for estimating the FY 2022 outlier fixed-loss amount in the form of potentially exceeding or falling short of the targeted 5.1 percent of total operating DRG payments plus outlier payments.

In summary, we have highlighted two factors in the decision regarding the best available data to use in the FY 2022 ratesetting. The first factor is to what extent the FY 2019 data from before the COVID–19 PHE is a better overall approximation of FY 2022 inpatient experience, or alternatively, to what extent the FY 2020 data including the COVID–19 PHE time period is a better overall approximation of FY 2022 inpatient experience. After analyzing this issue and for the reasons discussed, we believe for purposes of this proposed rule that FY 2019 is generally a better overall approximation of FY 2022. The second factor is to what extent the decision to use the FY 2019 or FY 2020 data differentially impacts the FY 2022 IPPS ratesetting. After analyzing this issue, and as discussed previously, we have determined that the decision does differentially impact the overall FY 2022 IPPS ratesetting in two primary ways. First, a decision to base the MS–DRG relative weights on the FY 2020 data has an impact of −0.2 percent if the FY 2022 inpatient experience is more like FY 2019 data. Second, the decision to use the FY 2019 or FY 2020 data results in an approximately 20 percent difference in the estimate of the outlier fixed-loss amount.

Taking these factors into account, we are proposing to use the FY 2019 data for the FY 2022 ratesetting for circumstances where the FY 2020 data is significantly impacted by the COVID–19 PHE, primarily in that the data reflect generally markedly different utilization for certain types of services in FY 2020 than would have been expected, in the absence of the PHE, as discussed previously. For example, we are proposing to use the FY 2019 MedPAR claims data for purposes where we ordinarily would have used the FY 2020 MedPAR claims data, such as in our analysis of changes to MS–DRG classifications (as discussed in greater detail section II.D. of the preamble of this proposed rule). Similarly, we are proposing to use cost report data from the FY 2018 HCRIS file for purposes where we ordinarily would have used the FY 2019 HCRIS file, such as in determining the proposed FY 2022 IPPS MS–DRG relative weights (as discussed in greater detail section II.E. of the preamble of this proposed rule). (As noted previously, the FY 2019 HCRIS data would contain many cost reports ending in FY 2020 based on each hospital’s cost reporting period.) We note that MedPAR claims data and cost report data from the HCRIS file are examples of the data sources for which we discuss the proposed use of the FY 2019 data for the FY 2022 ratesetting in this proposed rule. We have clearly identified throughout this proposed rule where and how we are proposing to use alternative data than what ordinarily would be used for the proposed FY 2022 IPPS and LTCH PPS ratesetting, including certain provider specific information.

As discussed in section I.O. of Appendix A of this proposed rule, we are also considering, as an alternative to this proposal, the use of the same FY 2020 data that we would ordinarily use for purposes of FY 2022 ratesetting, and

---

6 More information on outlier payments may be found on the CMS website at: [http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/outlier.html](http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/outlier.html)
which we may consider finalizing based on consideration of comments received. To facilitate comment on this alternative for FY 2022, we are making available the FY 2020 MedPAR file and the FY 2019 HCRIS file that we would ordinarily have provided in conjunction with this proposed rule. We are also making available the MS–DRG and MS–LTC–DRG relative weighting factors and length of stay information calculated using the FY 2020 data we would have ordinarily used. We are providing a file comparing the budget neutrality and other ratesetting adjustments calculated under our proposal with those adjustments calculated under this alternative approach. Finally, we are making available other proposed rule supporting data files based on the use of the FY 2020 data that we ordinarily would have provided, including: The IPPS and LTCH PPS Impact Files; the AOR/BOR File; the Case Mix Index File; and, the Standardizing File. We refer the reader to section I.O. of Appendix A of this proposed rule for more information on where these supplemental files may be found.

II. Proposed Changes to Medicare Severity Diagnosis-Related Group (MS–DRG) Classifications and Relative Weights

A. Background

Section 1886(d) of the Act specifies that the Secretary shall establish a classification system (referred to as diagnosis-related groups [DRGs]) for inpatient discharges and adjust payments under the IPPS based on appropriate weighting factors assigned to each DRG. Therefore, under the IPPS, Medicare pays for inpatient hospital services on a rate per discharge basis that varies according to the DRG to which a beneficiary’s stay is assigned. The formula used to calculate payment for a specific case multiplies an individual hospital’s payment rate per case by the weight of the DRG to which the case is assigned. Each DRG weight represents the average resources required to care for cases in that particular DRG, relative to the average resources used to treat cases in all DRGs.

Section 1886(d)(4)(C) of the Act requires that the Secretary adjust the DRG classifications and relative weights at least annually to account for changes in resource consumption. These adjustments are made to reflect changes in treatment patterns, technology, and any other factors that may change the relative use of hospital resources.

B. Adoption of the MS–DRGs and MS–DRG Reclassifications

For information on the adoption of the MS–DRGs in FY 2008, we refer readers to the FY 2008 IPPS final rule with comment period (72 FR 47140 through 47189).

For general information about the MS–DRG system, including yearly reviews and changes to the MS–DRGs, we refer readers to the previous discussions in the FY 2010 IPPS/RY 2010 LTCH PPS final rule (74 FR 43764 through 43766) and the FYs 2011 through 2021 IPPS/LTCH PPS final rules (75 FR 50053 through 50055; 76 FR 51485 through 51487; 77 FR 53323; 78 FR 50512; 79 FR 49871; 80 FR 49934; 81 FR 56787 through 56872; 82 FR 30810 through 30803; 83 FR 41158 through 41258; 84 FR 42058 through 42165; and, 85 FR 58445 through 58596 respectively).

C. Proposed FY 2022 MS–DRG Documentation and Coding Adjustment

1. Background on the Prospective MS–DRG Documentation and Coding Adjustments for FY 2008 and FY 2009 Authorized by Public Law 110–90 and the Recoupment or Repayment Adjustment Authorized by Section 631 of the American Taxpayer Relief Act of 2012 (ATRA)

In the FY 2008 IPPS final rule with comment period (72 FR 47140 through 47189), we adopted the MS–DRG patient classification system for the IPPS, effective October 1, 2007, to better recognize severity of illness in Medicare payment rates for acute care hospitals. The adoption of the MS–DRG system resulted in the expansion of the number of DRGs from 538 in FY 2007 to 745 in FY 2008. By increasing the number of MS–DRGs and more fully taking into account patient severity of illness in Medicare payment rates for acute care hospitals, MS–DRGs encourage hospitals to improve their documentation and coding of patient diagnoses.

In the FY 2008 IPPS final rule with comment period (72 FR 47175 through 47186), we indicated that the adoption of the MS–DRGs had the potential to lead to increases in aggregate payments without a corresponding increase in actual patient severity of illness due to the incentives for additional documentation and coding. In that final rule with comment period, we exercised our authority under section 1886(d)(3)(A)(v) of the Act, which authorizes us to maintain budget neutrality by adjusting the national standardized amount, to eliminate the estimated effect of changes in coding or classification that do not reflect real changes in case-mix. Our actuaries estimated that maintaining budget neutrality required an adjustment of −4.8 percentage points to the national standardized amount. We provided for phasing in this −4.8 percentage point adjustment over 3 years. Specifically, we established prospective documentation and coding adjustments of −1.2 percentage points for FY 2008, −1.8 percentage points for FY 2009, and −1.8 percentage points for FY 2010.

On September 29, 2007, Congress enacted the TMA [Transitional Medical Assistance], Abstinence Education, and QI [Qualifying Individuals] Programs Extension Act of 2007 (Pub. L. 110–90). Section 7(a) of Public Law 110–90 reduced the documentation and coding adjustment made as a result of the MS–DRG system that we adopted in the FY 2008 IPPS final rule with comment period to −0.6 percentage point for FY 2008 and −0.9 percentage point for FY 2009.

As discussed in prior year rulemakings, and most recently in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56780 through 56782), we implemented a series of adjustments required under sections 7(b)(1)(A) and 7(b)(1)(B) of Public Law 110–90, based on a retrospective review of FY 2008 and FY 2009 claims data. We completed these adjustments in FY 2013 but indicated in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53274 through 53275) that delaying full implementation of the adjustment required under section 7(b)(1)(A) of Public Law 110–90 until FY 2013 resulted in payments in FY 2010 through FY 2012 being overstated, and that these overpayments could not be recovered under Public Law 110–90.

In addition, as discussed in prior rulemakings and most recently in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38008 through 38009), section 631 of the American Taxpayer Relief Act of 2012 (ATRA) amended section 7(b)(1)(B) of Public Law 110–90 to require the Secretary to make a recoupment adjustment or adjustments totaling $11 billion by FY 2017. This adjustment represented the amount of the increase in aggregate payments as a result of not completing the prospective adjustment authorized under section 7(b)(1)(A) of Public Law 110–90 until FY 2013.

As discussed in prior year rulemakings, and most recently in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56780 through 56782), we implemented a series of adjustments
2. Adjustments Made for FYs 2018, 2019, 2020, and 2021 as Required Under Section 414 of Public Law 114–10 (MACRA) and Section 15005 of Public Law 114–255

As stated in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56785), once the recoupment required under section 631 of the ATRA was complete, we had anticipated making a single positive adjustment in FY 2018 to offset the reductions required to recoup the $11 billion under section 631 of the ATRA. However, section 414 of the MACRA (which was enacted on April 16, 2015) replaced the single positive adjustment we intended to make in FY 2018 with a 0.5 percentage point positive adjustment for each of FYs 2018 through 2023. In the FY 2017 rulemaking, we indicated that we would address the adjustments for FY 2018 and later fiscal years in future rulemaking. Section 15005 of the 21st Century Cures Act (Pub. L. 114–255), which was enacted on December 13, 2016, amended section 7(b)(1)(B) of the TMA, as amended by section 631 of the ATRA and section 414 of the MACRA, to reduce the adjustment for FY 2018 from a 0.5 percentage point positive adjustment to a 0.4588 percentage point positive adjustment. As we discussed in the FY 2018 rulemaking, we believe the directive under section 15005 of Public Law 114–255 is clear. Therefore, in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38009) for FY 2018, we implemented the required +0.4588 percentage point adjustment to the standardized amount. In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41157), the FY 2020 IPPS/LTCH PPS final rule (84 FR 42057), and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58444–58445), consistent with the requirements of section 414 of the MACRA, we implemented 0.5 percentage point positive adjustments to the standardized amount for FY 2019, FY 2020, and FY 2021, respectively. We indicated the FY 2018, FY 2019, FY 2020, and FY 2021 adjustments were permanent adjustments to payment rates. We also stated that we plan to propose future adjustments required under section 414 of the MACRA for FYs 2022 and 2023 in future rulemaking.

3. Proposed Adjustment for FY 2022

Consistent with the requirements of section 414 of the MACRA, we are proposing to implement a 0.5 percentage point positive adjustment to the standardized amount for FY 2022. This would be a permanent adjustment to payment rates. We plan to propose the final adjustment required under section 414 of the MACRA for FY 2023 in future rulemaking.

D. Proposed Changes to Specific MS–DRG Classifications

1. Discussion of Changes to Coding System and Basis for Proposed FY 2022 MS–DRG Updates

a. Conversion of MS–DRGs to the International Classification of Diseases, 10th Revision (ICD–10)

As of October 1, 2015, providers use the International Classification of Diseases, 10th Revision (ICD–10) coding system to report diagnoses and procedures for Medicare hospital inpatient services under the MS–DRG system instead of the ICD–9–CM coding system, which was used through September 30, 2015. The ICD–10 coding system includes the International Classification of Diseases, 10th Revision, Clinical Modification (ICD–10–CM) for diagnosis coding and the International Classification of Diseases, 10th Revision, Procedure Coding System (ICD–10–PCS) for inpatient hospital procedure coding, as well as the ICD–10–CM and ICD–10–PCS Official Guidelines for Coding and Reporting. For a detailed discussion of the conversion of the MS–DRGs to ICD–10, we refer readers to the FY 2017 IPPS/LTCH PPS final rule (81 FR 56787 through 56789).

b. Basis for Proposed FY 2022 MS–DRG Updates

Given the need for more time to carefully evaluate requests and propose updates, as discussed in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38010), we changed the deadline to request updates to the MS–DRGs to November 1 of each year, which provided an additional five weeks for the data analysis and review process. In the FY 2021 IPPS/LTCH PPS proposed rule (85 FR 32472), we stated that with the continued increase in the number and complexity of the requested changes to the MS–DRG classifications since the adoption of ICD–10 MS–DRGs, and in order to consider as many requests as possible, more time is needed to carefully evaluate the requested changes, analyze claims data, and consider any proposed updates. We further stated we were changing the deadline to request changes to the MS–DRGs to October 20 of each year to allow for additional time for the review and consideration of any proposed updates. However, in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58445), due to the unique circumstances for the FY 2021 IPPS/LTCH PPS final rule for which we waived the delayed effective date, we maintained the deadline of November 1, 2020 for FY 2022 MS–DRG classification change requests. We also noted that we expected to reconsider a change in the deadline beginning with comments and suggestions submitted for FY 2023. While we continue to believe that a change in the deadline from November 1 to October 20 will provide hospitals sufficient time to assess potential impacts and inform future MS–DRG recommendations, we are maintaining the deadline of November 1 for FY 2023 MS–DRG classification change requests.

As noted, interested parties had to submit MS–DRG classification change requests for FY 2022 by November 1, 2020, and the comments that were submitted in a timely manner for FY 2022 are discussed in this section of the preamble of this proposed rule. As we discuss in the sections that follow, we may not be able to fully consider all of the requests that we receive for the upcoming fiscal year. We have found that, with the implementation of ICD–10, some types of requested changes to the MS–DRG classifications require more extensive research to identify and analyze all of the data that are relevant to evaluating the potential change. We note in the discussion that follows those topics for which further research and analysis are required, and which we will continue to consider in connection with future rulemaking. Interested parties should continue to submit any comments and suggestions for FY 2023 by November 1, 2021 via the CMS MS–DRG Classification Change Request Mailbox located at: MSDRGCClassificationChange@cms.hhs.gov.

As we did for the FY 2021 IPPS/LTCH PPS proposed rule, for this FY 2022 IPPS/LTCH PPS proposed rule we are providing a test version of the ICD–10 MS–DRG GROUPER Software, Version 39, so that the public can better analyze and understand the impact of the proposals included in this proposed rule. We note that this test software reflects the proposed GROUPER logic for FY 2022. Therefore, it includes the new diagnosis and procedure codes that are effective for FY 2022 as reflected in Table 6.A.—New Diagnosis Codes—FY 2022 and Table 6.B.—New Procedure Codes—FY 2022 associated with this proposed rule and does not include the diagnosis codes that are invalid beginning in FY 2022 as reflected in Table 6.C.—Invalid Diagnosis Codes—FY 2022 and Table 6.D.—Invalid Procedure Codes—FY 2022 associated with this proposed change. These tables are not published in the Addendum to this proposed rule, but are available via the
We are inviting public comments on each of the MS–DRG classification proposed changes, as well as our proposals to maintain certain existing MS–DRG classifications discussed in this proposed rule. In some cases, we are proposing changes to the MS–DRG classifications based on our analysis of claims data and consultation with our clinical advisors. In other cases, we are proposing to maintain the existing MS–DRG classifications based on our analysis of claims data and consultation with our clinical advisors. As discussed in section I.F of the preamble of this proposed rule, we are proposing to use claims data from the March 2020 update of the FY 2019 MedPAR file in our analysis of proposed MS–DRG classification changes for FY 2022, consistent with our goal of using the best available data overall for ratesetting. Alternatively, we are also providing the results of our analysis of proposed MS–DRG classification changes using claims data from the September 2020 update of the FY 2020 MedPAR file. As a result, for this FY 2022 IPPS/LTCH PPS proposed rule, our MS–DRG analysis was based on ICD–10 claims data from the March 2020 update of the FY 2019 MedPAR file, which contains hospital bills received from October 1, 2018, through March 31, 2020, for discharges occurring through September 30, 2019. In addition, we also analyzed ICD–10 claims data from the September 2020 update of the FY 2020 MedPAR file, which contains hospital bills received from October 1, 2019, through September 30, 2020, for discharges occurring through September 30, 2020. In our discussion of the proposed MS–DRG reclassification changes, we refer to these claims data as the “March 2020 update of the FY 2019 MedPAR file” and “the September 2020 update of the FY 2020 MedPAR file.”

As explained in previous rulemaking (76 FR 51487), in deciding whether to propose to make further modifications to the MS–DRGs for particular circumstances brought to our attention, we consider whether the resource consumption and clinical characteristics of the patients with a given set of conditions are significantly different than the remaining patients represented in the MS–DRG. We evaluate patient care costs using average costs and lengths of stay and rely on the judgment of our clinical advisors to determine whether patients are clinically distinct or similar to other patients represented in the MS–DRG. In evaluating resource costs, we consider both the absolute and percentage differences in average costs between the cases we select for review and the remainder of cases in the MS–DRG. We also consider variation in costs within these groups; that is, whether observed average differences are consistent across patients or attributable to cases that are extreme in terms of costs or length of stay, or both. Further, we consider the number of patients who will have a given set of characteristics and generally prefer not to create a new MS–DRG unless it would include a substantial number of cases.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58448), we finalized our proposal to expand our existing criteria to create a new complication or comorbidity (CC) or major complication or comorbidity (MCC) subgroup within a base MS–DRG. Specifically, we finalized the expansion of the criteria to include the NonCC subgroup for a three-way severity level split. We stated we believed that applying these criteria to the NonCC subgroup would better reflect resource stratification as well as promote stability in the relative weights by avoiding low volume counts for the NonCC level MS–DRGs. We noted that in our analysis of MS–DRG classification requests for FY 2021 that were received by November 1, 2019, as well as any additional analyses that were conducted in connection with those requests, we applied these criteria to each of the MCC, CC, and NonCC subgroups. We also noted that the application of the NonCC subgroup criteria going forward may result in modifications to certain MS–DRGs that are currently split into three severity levels and result in MS–DRGs that are split into two severity levels. We stated that any proposed modifications to the MS–DRGs would be addressed in future rulemaking consistent with our annual process and reflected in Table 5—Proposed List of Medicare Severity Diagnosis Related Groups (MS–DRGs), Relative Weighting Factors, and Geometric and Arithmetic Mean Length of Stay for the applicable fiscal year.

In our analysis of the MS–DRG classification requests for FY 2022 that we received by November 1, 2020, as well as any additional analyses that were conducted in connection with those requests, we applied these criteria to each of the MCC, CC, and NonCC subgroups, as described in the following table.
<table>
<thead>
<tr>
<th>Criteria Number</th>
<th>Three-Way Split</th>
<th>Two-Way Split</th>
<th>Two-Way Split</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(MCC vs CC vs NonCC)</td>
<td>(MCC vs (CC+NonCC))</td>
<td>((MCC+CC) vs NonCC)</td>
</tr>
<tr>
<td>1. At least 500 cases in the MCC/CC/NonCC group</td>
<td>500+ cases for MCC group; and 500+ cases for CC group; and 500+ cases for NonCC group</td>
<td>500+ cases for MCC group; and 500+ cases for (CC+NonCC) group</td>
<td>500+ cases for ((MCC+CC) group; and 500+ cases for NonCC group</td>
</tr>
<tr>
<td>2. At least 5% of the patients are in the MCC/CC/NonCC group</td>
<td>5%+ cases for MCC group; and 5%+ cases for CC group; and 5%+ cases for NonCC group</td>
<td>5%+ cases for MCC group; and 5%+ cases for (CC+NonCC) group</td>
<td>5%+ cases for ((MCC+CC) group; and 5%+ cases for NonCC group</td>
</tr>
<tr>
<td>3. There is at least a 20% difference in average cost between subgroups</td>
<td>20%+ difference in average cost between MCC group and CC group; and 20%+ difference in average cost between CC group and NonCC group</td>
<td>20%+ difference in average cost between MCC group and (CC+NonCC) group</td>
<td>20%+ difference in average cost between (MCC+CC) group and NonCC group</td>
</tr>
<tr>
<td>4. There is at least a $2,000 difference in average cost between subgroups</td>
<td>$2,000+ difference in average cost between MCC group and CC group; and $2,000+ difference in average cost between CC group and NonCC group</td>
<td>$2,000+ difference in average cost between MCC group and (CC+NonCC) group</td>
<td>$2,000+ difference in average cost between (MCC+CC) group and NonCC group</td>
</tr>
<tr>
<td>5. The R2 of the split groups is greater than or equal to 3</td>
<td>R2 &gt; 3.0 for the three way split within the base MS-DRG</td>
<td>R2 &gt; 3.0 for the two way 1_23 split within the base MS-DRG</td>
<td>R2 &gt; 3.0 for the two way 12_3 split within the base MS-DRG</td>
</tr>
</tbody>
</table>

In general, once the decision has been made to propose to make further modifications to the MS–DRGs as described previously, such as creating a new base MS–DRG, or in our evaluation of a specific MS–DRG classification request to split (or subdivide) an existing base MS–DRG into severity levels, all five criteria must be met for the base MS–DRG to be split (or subdivided) by a CC subgroup. We note that in our analysis of requests to create a new MS–DRG, we typically evaluate the most recent year of MedPAR claims data available. For example, we stated earlier that for this FY 2022 IPPS/LTCH PPS proposed rule, our MS–DRG analysis was based on ICD–10 claims data from both the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file. However, in our evaluation of requests to split an existing base MS–DRG into severity levels, as noted in prior rulemaking (80 FR 49368), we typically analyze the most recent two years of data. This analysis includes 2 years of MedPAR claims data to compare the data results from 1 year to the next to avoid making determinations about whether additional severity levels are warranted based on an isolated year’s data fluctuation and also, to validate that the established severity levels within a base MS–DRG are supported. The first step in our process of evaluating if the creation of a new CC subgroup within a base MS–DRG is warranted is to determine if all the criteria is satisfied for a three way split. If the criteria fail, the next step is to determine if the criteria are satisfied for a two way split. If the criteria for both of the two way splits fail, then a split (or CC subgroup) would generally not be warranted for that base MS–DRG. If the three way split fails on any one of the five criteria and all five criteria for both two way splits (1_23 and 12_3) are met, we would apply the two way split with the highest R2 value. We note that if the request to split (or subdivide) an existing base MS–DRG into severity levels specifies the request is for either one of the two way splits (1_23 or 12_3), in response to the specific request, we will evaluate the criteria for both of the two way splits, however we do not also evaluate the criteria for a three way split.

For this FY 2022 IPPS/LTCH PPS proposed rule, using the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file, we also analyzed how applying the NonCC subgroup criteria to all MS–DRGs currently split into three severity levels would affect the MS–DRG structure beginning in FY 2022. Findings from our analysis indicated that approximately 32 MS–DRGs would be subject to change based on the three-way severity level split criteria finalized in FY 2021. Specifically, we found that applying the NonCC subgroup criteria to all MS–DRGs currently split into three severity levels would result in the deletion of 96 MS–DRGs (32 MS–DRGs × 3 severity levels = 96) and the creation of 58 new MS–DRGs. These updates would also involve a redistribution of cases, which would impact the relative weights, and, thus, the payment rates proposed for particular types of cases. We refer the reader to Table 6P.1c for the list of the 96 MS–DRGs that would be subject to deletion and the list of the 58 new MS–DRGs that would be proposed for creation for FY 2022 under this policy if the NonCC subgroup criteria were applied.
In light of the public health emergency (PHE), we have concerns about the impact of implementing this volume of MS–DRG changes at this time, and believe it may be appropriate to delay application of the NonCC subgroup criteria to existing MS–DRGs in order to maintain more stability in the current MS–DRG structure. Therefore, we are proposing to delay the application of the NonCC subgroup criteria to existing MS–DRGs with a three-way severity level split until FY 2023, and proposing for FY 2022 to maintain the current structure of the 32 MS–DRGs that currently have a three-way severity level split (total of 96 MS–DRGs) that would otherwise be subject to these criteria.

2. Pre-MDC: MS–DRG 018 Chimeric Antigen Receptor (CAR) T-Cell Therapy

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58451 through 58453), we finalized our proposal to create Pre-MDC MS–DRG 018 (Chimeric Antigen Receptor (CAR) T-cell Immunotherapy) and to reassign cases reporting ICD–10–PCS procedure codes XW033C3 (Introduction of engineered autologous chimeric antigen receptor t-cell immunotherapy into peripheral vein, percutaneous approach, new technology group 3) or XW043C3 (Introduction of engineered autologous chimeric antigen receptor t-cell immunotherapy into central vein, percutaneous approach, new technology group 3) from Pre-MDC MS–DRG 016 (Autologous Bone Marrow Transplant with CC/MCC or T-cell Immunotherapy), to new Pre-MDC MS–DRG 018 effective with discharges on and after October 1, 2020. We also finalized our proposal to revise the title for MS–DRG 016 from “Autologous Bone Marrow Transplant with CC/MCC or T-cell Immunotherapy” to “Autologous Bone Marrow Transplant with CC/MCC” to reflect these changes.

Additionally, in the FY 2021 IPPS/LTCH PPS final rule in response to public comments expressing concern that Pre-MDC MS–DRG 018 is specific to one mechanistic approach to cellular therapy, and in response to commenters who sought clarification on how future CAR T-cell and non-CAR T-cell therapy products would be assigned, we stated that if additional cellular therapies should become available, we would use our established process to determine the MS–DRG assignment. The commenters requested that CMS provide flexibility for future cellular therapies, as they are made available and not restrict Pre-MDC MS–DRG 018 to CAR T-cell therapies alone. In this section of this rule, we discuss the assignment of these therapies in more detail.

During the September 8–9, 2020 ICD–10 Coordination and Maintenance Committee meeting, several topics involving requests for new procedure codes related to CAR T-cell therapies, non-CAR T-cell therapies and other immunotherapies were discussed. We refer the reader to the CMS website at: https://www.cms.gov/Medicare/Coding/ICD10/C-and-M-Meeting-Materials for additional detailed information regarding these requests for new procedure codes. As noted in prior rulemaking (85 FR 32543), for new procedure codes that have been finalized through the ICD–10 Coordination and Maintenance Committee meeting process and are proposed to be classified as O.R. procedures or non-O.R. procedures affecting the MS–DRG, our clinical advisors recommend the MS–DRG assignment which is then made available in association with the proposed rule (Table 6B.—New Procedure Codes) and subject to public comment. These proposed assignments are generally based on the assignment of predecessor codes or the assignment of similar codes. As discussed in section II.D.13 of the preamble of this proposed rule, Table 6B.—New Procedure Codes, lists the new procedure codes that have been approved to date that will be effective with discharges on and after October 1, 2021. Included in Table 6B are the following new procedure codes that describe the administration of CAR T-cell and non-CAR T-cell therapies and other immunotherapies. Consistent with our established process, we examined the MS–DRG assignment for the predecessor codes to determine the most appropriate MS–DRG assignment and, consistent with the assignment of those predecessor codes, we are proposing to classify the following new procedure codes as non-O.R. procedures affecting Pre-MDC MS–DRG 018, as shown in Table 6B.—New Procedure Codes associated with this proposed rule and available via the internet on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index/.
<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XW033C7</td>
<td>Introduction of autologous engineered chimeric antigen receptor t-cell immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033G7</td>
<td>Introduction of allogeneic engineered chimeric antigen receptor t-cell immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033H7</td>
<td>Introduction of axicabtagene ciloleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033J7</td>
<td>Introduction of tisagenlecleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033K7</td>
<td>Introduction of idecabtagene vicleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033L7</td>
<td>Introduction of lifileucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033M7</td>
<td>Introduction of brexucabtagene autoleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW033N7</td>
<td>Introduction of lisocabtagene maraleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043C7</td>
<td>Introduction of autologous engineered chimeric antigen receptor t-cell immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043G7</td>
<td>Introduction of allogeneic engineered chimeric antigen receptor t-cell immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043H7</td>
<td>Introduction of axicabtagene ciloleucel immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043J7</td>
<td>Introduction of tisagenlecleucel immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043K7</td>
<td>Introduction of idecabtagene vicleucel immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043L7</td>
<td>Introduction of lifileucel immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043M7</td>
<td>Introduction of brexucabtagene autoleucel immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
<tr>
<td>XW043N7</td>
<td>Introduction of lisocabtagene maraleucel immunotherapy into central vein, percutaneous approach, new technology group 7</td>
</tr>
</tbody>
</table>

In connection with our proposed assignment of the listed procedure codes to Pre-MDC MS–DRG 018, we are also proposing to revise the title for Pre-MDC MS–DRG 018 “Chimeric Antigen Receptor (CAR) T-cell Immunotherapy” to “Chimeric Antigen Receptor (CAR) T-cell and Other Immunotherapies” to better reflect the cases reporting the administration of non-CAR T-cell therapies and other immunotherapies that would also be assigned to this MS–DRG (for example, Introduction of lifileucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7), in addition to CAR T-cell therapies.

3. MDC 03 (Diseases and Disorders of Ear, Nose and Throat)

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58462 through 58471), we finalized our proposal to create two new base MS–DRGs, 140 and 143, with a three-way severity level split for new MS–DRGs 140, 141, and 142 (Major Head and Neck Procedures with MCC, with CC, and without CC/MCC, respectively) and new MS–DRGs 143, 144, and 145 (Other Ear, Nose, Mouth And Throat O.R. Procedures with MCC, with CC, and without CC/MCC, respectively). We provided the list of procedure codes that were finalized to define the logic for the new MS–DRGs in Tables 6P.2n, 6P.2b, and 6P.2c associated with the final rule and available via the internet on the CMS website at https://www.cms.gov/
Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index. We received two separate but related requests to review and reconsider the MS–DRG assignments for a subset of the procedure codes listed in Table 6P.2a (procedure codes assigned to MS–DRGs 140, 141, and 142) and Table 6P.2b (procedure codes assigned to MS–DRGs 143, 144, and 145). In this section of this proposed rule, we discuss each of these separate, but related requests.

The requestor stated that the listed procedure codes do not appear appropriately assigned to MS–DRGs 140, 141, and 142. According to the requestor, if any one of the five procedure codes describing a procedure performed on the cranial cavity (0W9100Z, 0W910ZZ, 0WC10ZZ, 0WC13ZZ, or 0WX14ZZ) is assigned in conjunction with a principal diagnosis from MDC 03 (Diseases and Disorders of Ear, Nose, Mouth, and Throat), it appears more appropriate that cases reporting the diagnosis and procedure combination would group to MS–DRGs 25, 26, and 27 (Craniotomy and Endovascular Intracranial Procedures with MCC, with CC, and without CC/MCC, respectively) (for example, “craniotomy” MS–DRGs in MDC 01 (Diseases and Disorders of the Central Nervous System) or to MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively). The requestor stated that drainage and extirpation from the cranial cavity always involves drilling or cutting through the skull regardless of the approach, therefore the five procedure codes identified warrant assignment to the “craniotomy” MS–DRGs. For the three procedure codes describing excision of subcutaneous tissue of chest, back, or abdomen (0JB60ZZ, 0JB70ZZ, and 0JB80ZZ), the requestor stated those codes should group to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) because they are not pertinent to the ear, nose, mouth, or throat.

We reviewed this request and note that the five procedure codes describing procedures performed on the cranial cavity are already assigned to MDC 01 and to the “craniotomy” MS–DRGs (25, 26, and 27) when reported with a principal diagnosis from MDC 01, and are also currently classified as Extensive O.R. procedures, resulting in assignment to MS–DRGs 981, 982, and 983 when any one of the five procedure codes is reported on the claim and is unrelated to the MDC to which the case was assigned based on the principal diagnosis. We also note that in addition to MS–DRGs 25, 26, and 27, MS–DRG 23 (Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator) and MS–DRG 24 (Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis without MCC) include procedures performed on structures located within the cranial cavity, are included in the range of MS–DRGs known as the “craniotomy” MS–DRGs in MDC 01, and the five procedure codes submitted by the requestor describing procedures performed on the cranial cavity are also assigned to these MS–DRGs. We refer the requester to Appendix E of the ICD–10 MS–DRG Definitions Manual for further discussion of how each procedure code may be assigned to multiple MDCs and MS–DRGs under the IPPS. The ICD–10 MS–DRG Definitions Manual is located on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/MS-DRG-Classifications-and-Software. We also note that these five procedure codes were previously assigned to MS–DRGs 131 and 132 (Cranial and Facial Procedures with and without CC/MCC, respectively) in MDC 03 under version 37 of the ICD–10 MS–DRGs prior to the restructuring that was finalized effective FY 2021 for MS–DRG 129 (Major Head and Neck Procedures with CC/MCC or Major Device) and MS–DRG 130 (Major Head and Neck Procedures without CC/MCC), MS–DRGs 131 and 132, and MS–DRGs 133 and 134 (Other Ear, Nose, Mouth and Throat O.R. Procedures with and without CC/MCC, respectively).

With regard to the three procedure codes describing excision of subcutaneous tissue of chest, back, or abdomen (0JB60ZZ, 0JB70ZZ, and 0JB80ZZ), the requestor suggested that the codes should group to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) specifically because they are not pertinent to the ear, nose, mouth, or throat, however, it is unclear if the requestor was concerned more broadly that the three procedure codes should not group to any MS–DRGs in MDC 03 (Diseases and Disorders of Ear, Nose and Throat), given the stated rationale for the request.

Upon our review, we believe that the three procedure codes describing excision of subcutaneous tissue of chest, back, and abdomen (0JB60ZZ, 0JB70ZZ, and 0JB80ZZ), which do not describe major head and neck procedures, were inadvertently included in Table 6P.2a for assignment to MS–DRGs 140, 141, and 142. However, we also believe that the codes are appropriate for assignment to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively).

The requestor provided the following procedure codes from Table 6P.2a associated with the FY 2021 IPPS/LTCH PPS final rule for CMS to examine.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0JB60ZZ</td>
<td>Excision of chest subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0JB70ZZ</td>
<td>Excision of back subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0JB80ZZ</td>
<td>Excision of abdomen subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0W9100Z</td>
<td>Drainage of cranial cavity with drainage device, open approach</td>
</tr>
<tr>
<td>0W910ZZ</td>
<td>Drainage of cranial cavity, open approach</td>
</tr>
<tr>
<td>0WC10ZZ</td>
<td>Extirpation of matter from cranial cavity, open approach</td>
</tr>
<tr>
<td>0WC13ZZ</td>
<td>Extirpation of matter from cranial cavity, percutaneous approach</td>
</tr>
<tr>
<td>0WC14ZZ</td>
<td>Extirpation of matter from cranial cavity, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>
in MDC 03 and note that the three procedure codes were previously assigned to MS–DRGs 133 and 134 (Other Ear, Nose, Mouth and Throat O.R. Procedures with and without CC/ MCC, respectively) in MDC 03 prior to the restructuring that was finalized effective FY 2021 for MS–DRGs 129, 130, 131, 132, 133, and 134. We also provided the following clarification in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58470), as stated in the ICD–10 MS–DRG Definitions Manual, “In each MDC there is usually a medical and a surgical class referred to as “other medical diseases” and “other surgical procedures,” respectively. The “other” medical and surgical classes are not as precisely defined from a clinical perspective. The other classes would include diagnoses or procedures, which were infrequently encountered or not well defined clinically. For example, the “other” medical class for the Respiratory System MDC would contain the diagnoses “other somatoform disorders” and “congenital malformation of the respiratory system,” while the “other” surgical class for the female reproductive MDC would contain the surgical procedures “excision of liver” (liver biopsy in ICD–9–CM) and “inspection of peritoneal cavity” (exploratory laparotomy in ICD–9–CM). The “other” surgical category contains surgical procedures which, while infrequent, could still reasonably be expected to be performed for a patient in the particular MDC.”

During our review of procedure codes 0JB0ZZ, 0JB70ZZ, and 0JB80ZZ (describing excision of subcutaneous tissue of chest, back, and abdomen, respectively) we also confirmed that these procedures are currently designated as Extensive O.R. procedures. Consistent with other procedure codes on the Non-extensive procedure code list, we do not believe the procedures described by these procedure codes necessarily utilize the resources or have the level of technical complexity as the procedures on the Extensive O.R. procedures list. Therefore, we agree that the procedure codes describing these procedures would be more appropriately designated as Non-extensive procedures and group to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) when any one of the three procedure codes is reported on a claim and is unrelated to the MDC to which the case was assigned based on the principal diagnosis. We refer the reader to section II.D.10 of the preamble of this proposed rule for further discussion regarding our proposal to reassign these procedure codes from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) for FY 2022.

Therefore, we are proposing to reassign the three procedure codes describing excision of subcutaneous tissue of chest, back, or abdomen (0JB60ZZ, 0JB70ZZ, and 0JB80ZZ) from MS–DRGs 140, 141, and 142 (Major Head and Neck Procedures with MCC, with CC, and without CC/MCC, respectively) to MS–DRGs 143, 144, and 145 (Other Ear, Nose, Mouth And Throat O.R. Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 03 for FY 2022. We refer the reader to section II.D.10 of the preamble of this proposed rule for further discussion regarding the designation of these codes as Extensive O.R. procedures versus Non-extensive O.R. procedures and our proposed reassignment of these codes from MS–DRGs 981, 982, and 983 to MS–DRGs 987, 988, and 989 for FY 2022.

b. Other Ear, Nose, Mouth and Throat O.R. Procedures

As stated earlier, we received two separate but related requests to review and reconsider the MS–DRG assignments for a subset of the procedure codes listed in Table 6P.2a and Table 6P.2b. In this section of this proposed rule, we discuss the second request related to procedure codes listed in Table 6P.2b associated with the FY 2021 IPPS/LTCH PPS final rule and currently assigned to MS–DRGs 143, 144 and 145.

The requestor provided a list of 82 procedure codes from Table 6P.2b associated with the FY 2021 IPPS/LTCH PPS final rule for CMS to examine. We refer the reader to Table 6P.1d associated with this FY 2022 IPPS/LTCH PPS proposed rule and available via the internet at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index/ for the list of procedure codes that were provided by the requestor. According to the requestor, if any one of the 82 procedure codes is assigned in conjunction with a principal diagnosis code from MDC 03, it appears more appropriate that cases reporting the diagnosis and procedure code combination would group to MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) or to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) versus MS–DRGs 143, 144, and 145 (Other Ear, Nose, Mouth And Throat O.R. Procedures with MCC, with CC, and without CC/MCC, respectively).

However, the requestor also stated that of the 82 procedure codes, the following three procedure codes describing control of bleeding in the cranial cavity warrant grouping to MS–DRGs 25, 26, and 27 (for example, “craniotomy” MS–DRGs) in MDC 01, for the same reasons previously described in the prior section pertaining to the five other procedures performed on the cranial cavity.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0W310ZZ</td>
<td>Control bleeding in cranial cavity, open approach</td>
</tr>
<tr>
<td>0W313ZZ</td>
<td>Control bleeding in cranial cavity, percutaneous approach</td>
</tr>
<tr>
<td>0W314ZZ</td>
<td>Control bleeding in cranial cavity, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

We reviewed this request and similar to the discussion in the prior section for the separate but related request, we note that the “other” surgical category contains surgical procedures which, while infrequent, could still reasonably be expected to be performed for a patient in the particular MDC. We continue to believe that the 82
procedure codes provided by the requestor are appropriately assigned to MS–DRGs 143, 144, and 145 in MDC 03. With regard to the requestor’s assertion that cases reporting any one of the 82 procedure codes would more appropriately group to the MS–DRGs for Extensive O.R. procedures or Non-extensive O.R. procedures when reported in conjunction with a principal diagnosis from MDC 03, we note that, as shown in Table 6P.2b associated with the FY 2021 IPPS/LTCH PPS final rule, the procedure codes that were finalized for assignment to MS–DRGs 143, 144, and 145 were previously assigned to MS–DRGs 129 and 130, 131 and 132, or 133 and 134 in MDC 03. We also note that, as discussed in prior rulemaking, cases that contain O.R. procedures will map to MS–DRG 981, 982, or 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) or MS–DRG 987, 988, or 989 (Non-Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) when they do not contain a principal diagnosis that corresponds to one of the MDCs to which that procedure is assigned. For these reasons, we are proposing to maintain the current structure for MS–DRGs 143, 144, and 145 for FY 2022.

We refer the reader to section II.D.10. of the preamble of this proposed rule for further discussion of this request, as well as our proposed assignment of these codes to MS–DRGs 23, 24, 25, 26, and 27 for FY 2022.

4. MDC 04 (Diseases and Disorders of the Respiratory System)

a. Bronchiectasis

We received a request to reassign cases reporting diagnosis codes describing bronchiectasis from MS–DRGs 190, 191, and 192 (Chronic Obstructive Pulmonary Disease with MCC, with CC, and without CC/MCC, respectively) to MS–DRGs 177, 178, and 179 (Respiratory Infections and Inflammation with MCC, with CC, and without CC/MCC, respectively). Bronchiectasis is described by the following diagnosis codes

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J47.0</td>
<td>Bronchiectasis with acute lower respiratory infection</td>
</tr>
<tr>
<td>J47.1</td>
<td>Bronchiectasis with (acute) exacerbation</td>
</tr>
<tr>
<td>J47.9</td>
<td>Bronchiectasis, uncomplicated</td>
</tr>
<tr>
<td>Q33.4</td>
<td>Congenital bronchiectasis</td>
</tr>
</tbody>
</table>

According to the requestor, the underlying pathobiology of bronchiectasis is more similar to cystic fibrosis than it is to chronic obstructive pulmonary disease (COPD). The requestor stated that in bronchiectasis, there is an inciting event that creates scarring in the lung which prevents the lung from clearing out mucus like it normally would. The accumulation of abnormal mucous results in an environment conducive to bacterial growth and commonly found bacteria in this setting is very similar to those of cystic fibrosis with Staphylococcus aureus, Pseudomonas aeruginosa, and non-tuberculous mycobacterium. The requestor reported that when patients develop an exacerbation of bronchiectasis, this is because of a buildup of mucus compounded by overwhelming growth of the previously mentioned bacteria. The requestor also stated that patients admitted to the hospital for bronchiectasis exacerbation are treated aggressively with intravenous (IV) antibiotics to suppress the bacterial infection in combination with airway clearance therapies. The requestor further stated that, unlike in an acute COPD exacerbation, these patients do not always require steroids as there is not necessarily airway reactivity.

The requestor maintained that the underlying reason for admission to the hospital for these patients is the bacterial infection component of the exacerbation, with the standard course of treatment for these pulmonary bacterial infections averaging a minimum of 10–14 days due to the slow growing nature of the bacteria commonly encountered in these patients.

We reviewed this request and believe that bronchiectasis is appropriately assigned to MS–DRGs 190, 191, and 192 (Chronic Obstructive Pulmonary Disease with MCC, with CC, and without CC/MCC, respectively) because bronchiectasis, like COPD, is a chronic condition. With respect to the requestor’s comments, cystic fibrosis, a genetic disease that affects mucus producing cells resulting in recurring lung infections, can lead to bronchiectasis. However, our clinical advisors indicated that the cause of bronchiectasis can be multifactorial or even remain undefined. Regardless of the cause, when present, bronchiectasis is an irreversible chronic pulmonary condition due to abnormal change to or destruction of normal pulmonary anatomy (the major bronchi and bronchiole walls), resulting in impaired air movement in and out of the lungs. COPD, regardless of the cause (smoking, pollution, other exposures), is a chronic pulmonary condition due to change/destruction of normal pulmonary anatomy, resulting in impaired air movement in and out of the lungs. Both bronchiectasis and COPD patients have abnormal pulmonary function tests and abnormal anatomic findings on chest x-ray and/or chest CT. Therefore, for these reasons, we are proposing to maintain the structure of MS–DRGs 190, 191, and 192 for FY 2022.

b. Major Chest Procedures

In the FY 2020 IPPS/LTCH PPS proposed (84 FR 19234) and final rules (84 FR 42148), we stated that in review of the procedures that are currently assigned to MS–DRGs 163, 164, and 165 (Major Chest Procedures with MCC, with CC and without CC/MCC, respectively) and 166, 167, and 168 (Other Respiratory System O.R. Procedures with MCC, with CC, and without CC/MCC, respectively), that further refinement of these MS–DRGs may be warranted. In this section of this proposed rule, we discuss our review of the procedures and our proposal for...
We began our review of MS–DRGs 163, 164, 165, 166, 167, and 168 by first examining all the procedures currently assigned to these MS–DRGs. We refer the reader to the ICD–10 MS–DRG Definitions Manual Version 38.1, which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS for complete documentation of the GROUPER logic for MS–DRGs 163, 164, 165, 166, 167, and 168.

In our review of the procedures currently assigned to MS–DRGs 163, 164, 165, 166, 167, and 168, we found 17 procedure codes in MS–DRGs 163, 164, and 165 describing laser interstitial thermal therapy (LITT) of body parts that do not describe areas within the respiratory system, which would not be clinically appropriate to maintain in the logic. These procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D0Y6KZZ</td>
<td>Laser interstitial thermal therapy of spinal cord</td>
</tr>
<tr>
<td>D0Y7KZZ</td>
<td>Laser interstitial thermal therapy of peripheral nerve</td>
</tr>
<tr>
<td>D0Y0KZZ</td>
<td>Laser interstitial thermal therapy of esophagus</td>
</tr>
<tr>
<td>D0Y1KZZ</td>
<td>Laser interstitial thermal therapy of stomach</td>
</tr>
<tr>
<td>D0Y2KZZ</td>
<td>Laser interstitial thermal therapy of duodenum</td>
</tr>
<tr>
<td>D0Y3KZZ</td>
<td>Laser interstitial thermal therapy of jejunum</td>
</tr>
<tr>
<td>D0Y4KZZ</td>
<td>Laser interstitial thermal therapy of ileum</td>
</tr>
<tr>
<td>D0Y5KZZ</td>
<td>Laser interstitial thermal therapy of colon</td>
</tr>
<tr>
<td>D0Y7KZZ</td>
<td>Laser interstitial thermal therapy of rectum</td>
</tr>
<tr>
<td>D0Y8KZZ</td>
<td>Laser interstitial thermal therapy of anus</td>
</tr>
<tr>
<td>D0Y1KZZ</td>
<td>Laser interstitial thermal therapy of gallbladder</td>
</tr>
<tr>
<td>D0Y2KZZ</td>
<td>Laser interstitial thermal therapy of bile ducts</td>
</tr>
<tr>
<td>D0Y3KZZ</td>
<td>Laser interstitial thermal therapy of pancreas</td>
</tr>
<tr>
<td>D0Y4KZZ</td>
<td>Laser interstitial thermal therapy of adrenal glands</td>
</tr>
<tr>
<td>D0Y5KZZ</td>
<td>Laser interstitial thermal therapy of left breast</td>
</tr>
<tr>
<td>D0Y6KZZ</td>
<td>Laser interstitial thermal therapy of right breast</td>
</tr>
<tr>
<td>D0Y7KZZ</td>
<td>Laser interstitial thermal therapy of prostate</td>
</tr>
</tbody>
</table>

During our review of these 17 procedure codes, we identified additional MDCs and MS–DRG assignments that are not also clinically appropriate to maintain in the logic because the body parts described by the codes are not consistent with the organ system, etiology or clinical specialty of the MDC to which the procedure code is currently assigned. For example, 16 of the 17 procedure codes (all except procedure code D0Y0KZZ) are included in the logic for case assignment to MDC 12 (Diseases and Disorders of the Male Reproductive System) in MS–DRGs 715 and 716 (Other Male Reproductive System O.R. Procedures for Malignancy with and without CC/MCC, respectively) and MS–DRGs 717 and 718 (Other Male Reproductive System O.R. Procedures Except Malignancy with and without CC/MCC, respectively) which is not clinically appropriate. Therefore, we are proposing to reassign these 17 procedure codes from their current MS–DRG assignments in MDC 04, and from the additional MDCs and MS–DRGs identified during our review that were found to be clinically inappropriate, to their clinically appropriate MDC and MS–DRGs as shown in Table 6P.2b associated with this proposed rule (which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS).

During our review of the procedure codes describing LITT of various body parts we also confirmed that these procedures are currently designated as Extensive O.R. procedures. We do not believe the procedures described by these procedure codes necessarily utilize the resources or have the level of technical complexity as the other procedures on the Extensive O.R. procedures list. We believe that the procedure codes describing these procedures would be more appropriately designated as Non-extensive procedures and group to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) when any one of the procedure codes is reported on a claim and is unrelated to the MDC to which the case was assigned based on the principal diagnosis. We refer the reader to section II.D.10. of the preamble of this proposed rule for further discussion regarding our proposal to reassign these procedure codes from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) for FY 2022.

We also identified five procedure codes describing repair of the esophagus procedures currently assigned to MS–DRGs 163, 164, and 165 that would not be clinically appropriate to maintain in the logic. The procedure codes are 0DQ50ZZ (Repair esophagus, open approach), 0DQ53ZZ (Repair esophagus, percutaneous approach), 0DQ54ZZ (Repair esophagus, percutaneous approach), 0DQ55ZZ (Repair esophagus, percutaneous approach), and 0DQ56ZZ (Repair esophagus, percutaneous approach).
<table>
<thead>
<tr>
<th>Procedure Description</th>
<th>Billing Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair esophagus, via natural or artificial opening endoscopic</td>
<td>0DQ57ZZ</td>
</tr>
<tr>
<td>Repair esophagus, via natural or artificial opening endoscopic, and 0DQ58ZZ</td>
<td></td>
</tr>
</tbody>
</table>

endoscopic approach), 0DQ57ZZ
(Repair esophagus, via natural or artificial opening), and 0DQ58ZZ

currently assigned to the following MDCs and MS–DRGs.
<table>
<thead>
<tr>
<th>MDC</th>
<th>Description</th>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Diseases and Disorders of the Ear, Nose, Mouth and Throat</td>
<td>143</td>
<td>Other Ear, Nose, Mouth and Throat O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>144</td>
<td>Other Ear, Nose, Mouth and Throat O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>145</td>
<td>Other Ear, Nose, Mouth and Throat O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td>06</td>
<td>Diseases and Disorders of the Digestive System</td>
<td>326</td>
<td>Stomach, Esophageal and Duodenal Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>327</td>
<td>Stomach, Esophageal and Duodenal Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>328</td>
<td>Stomach, Esophageal and Duodenal Procedures without CC/MCC</td>
</tr>
<tr>
<td>17</td>
<td>Myeloproliferative Diseases and Disorders, and Poorly Differentiated Neoplasms</td>
<td>820</td>
<td>Lymphoma and Leukemia with Major O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>821</td>
<td>Lymphoma and Leukemia with Major O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>822</td>
<td>Lymphoma and Leukemia with Major O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>826</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Major O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>827</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Major O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>828</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Major O.R. Procedures without CC/MCC</td>
</tr>
</tbody>
</table>
The five procedure codes describing repair of esophagus procedures are not clinically coherent with the other procedures in MS–DRGs 163, 164, and 165 that describe procedures performed on major chest structures. Therefore, we are proposing to remove procedure codes 0DQ50ZZ, 0DQ53ZZ, 0DQ54ZZ, 0DQ57ZZ, and 0DQ58ZZ from the logic in MDC 04 for FY 2022.

During our review of procedure codes 0DQ50ZZ, 0DQ53ZZ, 0DQ54ZZ, 0DQ57ZZ, and 0DQ58ZZ (describing repair of esophagus procedures) we also confirmed that these procedures are currently designated as Extensive O.R. procedures. We do not believe the procedures described by procedure codes 0DQ53ZZ, 0DQ57ZZ, and 0DQ58ZZ necessarily utilize the resources or have the level of technical complexity as the other procedures on the Extensive O.R. procedures list. We believe that the procedure codes describing these procedures would be more appropriately designated as Non-extensive procedures and group to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) when any one of the three procedure codes is reported on a claim and is unrelated to the MDC to which the case was assigned based on the principal diagnosis. We refer the reader to section II.D.10. of the preamble of this proposed rule for further discussion regarding our proposal to reassign these procedure codes from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) for FY 2022.

Next, we examined claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for all cases in MS–DRGs 163, 164, 165, 166, 167, and 168. Our findings are shown in the following tables.

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>163</td>
<td>10,851</td>
<td>11.7</td>
<td>$34,904</td>
</tr>
<tr>
<td>164</td>
<td>15,743</td>
<td>5.4</td>
<td>$19,258</td>
</tr>
<tr>
<td>165</td>
<td>8,144</td>
<td>3.1</td>
<td>$14,120</td>
</tr>
<tr>
<td>166</td>
<td>10,151</td>
<td>10.6</td>
<td>$26,677</td>
</tr>
<tr>
<td>167</td>
<td>6,483</td>
<td>5.0</td>
<td>$13,517</td>
</tr>
<tr>
<td>168</td>
<td>2,420</td>
<td>2.6</td>
<td>$10,117</td>
</tr>
</tbody>
</table>
September 2020 Update of the FY 2020 MedPAR File

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>163</td>
<td>9,227</td>
<td>11.1</td>
<td>$35,694</td>
</tr>
<tr>
<td>164</td>
<td>13,121</td>
<td>5.1</td>
<td>$19,786</td>
</tr>
<tr>
<td>165</td>
<td>6,339</td>
<td>3.0</td>
<td>$14,991</td>
</tr>
<tr>
<td>166</td>
<td>8,213</td>
<td>10.7</td>
<td>$27,939</td>
</tr>
<tr>
<td>167</td>
<td>4,889</td>
<td>5.0</td>
<td>$14,288</td>
</tr>
<tr>
<td>168</td>
<td>1,726</td>
<td>2.5</td>
<td>$10,566</td>
</tr>
</tbody>
</table>

As shown in the tables, there were a higher number of cases reported in MS-DRGs 163, 164, 165, 166, 167, and 168 from the March 2020 update of the FY 2019 MedPAR file in comparison to the September 2020 update of the FY 2020 MedPAR file and overall, the cases reported have comparable average lengths of stay and comparable average costs for both fiscal years.

We then examined claims data from both the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for MS–DRGs 163, 164, 165, 166, 167, and 168 to compare costs, complexity of service and clinical coherence for each procedure code currently assigned to these MS–DRGs to assess any potential realignment of the procedures. We refer the reader to Table 6P.1e and Table 6P.1f associated with this proposed rule (which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS) for the detailed claims data analysis. Table 6P.1e contains the data analysis findings of procedure codes currently assigned to MS–DRGs 163, 164, 165, 166, 167, and 168 from the March 2020 update of the FY 2019 MedPAR file and Table 6P.1f contains the data analysis findings of procedure codes currently assigned to MS–DRGs 163, 164, 165, 166, 167, and 168 from the September 2020 update of the FY 2020 MedPAR file. We note that if a procedure code that is currently assigned to MS–DRGs 163, 164, 165, 166, 167, or 168, and the average length of stay for these specific cases ranged from 1 day to 97 days. For example, in the analysis of claims data from the March 2020 update of the FY 2019 MedPAR file, during our review of MS–DRG 163, we found 153 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 2 days to 65 days and the average costs ranging from $3,760 to $195,447 for these cases. For MS–DRG 164, we found 145 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 28 days and the average costs ranging from $1,886 to $137,810 for these cases. For MS–DRG 165, we found 111 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 23 days and the average costs ranging from $2,656 to $73,092 for these cases. For MS–DRG 166, we found 150 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 23 days and the average costs ranging from $2,656 to $73,092 for these cases. For MS–DRG 167, we found 141 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 16 days and the average costs ranging from $2,682 to $164,014 for these cases. For MS–DRG 166, we found 105 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 22 days and the average costs ranging from $3,230 to $246,679 for these cases. For MS–DRG 167, we found 105 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 23 days and the average costs ranging from $2,150 to $112,465 for these cases. For MS–DRG 168, we found 72 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 9 days and the average costs ranging from $1,563 to $76,061 for these cases.

Our clinical advisors reviewed the procedures currently assigned to MS–DRGs 163, 164, 165, 166, 167, and 168 to identify the patient attributes that currently define each of these procedures and to group them with respect to complexity of service and resource intensity. This process included separating the procedures according to the surgical approach (open, percutaneous, percutaneous endoscopic, via natural opening or artificial opening, endoscopic, and external).

As shown in the tables, there were several instances in which only one occurrence of a procedure was reported with a procedure code from MS–DRGs 163, 164, 165, 166, 167, or 168. During our review of MS–DRG 163, we found 139 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 2 days to 97 days and the average costs ranging from $5,697 to $205,696 for these cases. For MS–DRG 164, we found 122 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 35 days and the average costs ranging from $3,204 to $120,128 for these cases. For MS–DRG 165, we found 92 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 50 days and the average costs ranging from $2,033 to $120,012 for these cases. For MS–DRG 166, we found 121 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 60 days and the average costs ranging from $1,886 to $130,128 for these cases. For MS–DRG 167, we found 119 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 70 days and the average costs ranging from $2,033 to $120,012 for these cases. For MS–DRG 168, we found 118 procedures for which only one occurrence of the procedure was reported with the average length of stay ranging from 1 day to 65 days and the average costs ranging from $1,886 to $120,012 for these cases.
We also considered the claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for MS–DRGs 163, 164, 165, 166, 167, and 168 to further analyze the average length of stay and average costs for the cases reporting procedures assigned to any one of these MS–DRGs as well as clinical coherence for these cases. For example, procedures that we believe represent greater treatment difficulty and reflect a class of patients who are similar clinically with regard to consumption of hospital resources were grouped separately from procedures that we believe to be less complex but still reflect patients who are similar clinically with regard to consumption of hospital resources. This approach differentiated the more complex procedures, such as procedures performed on the sternum and ribs (for example, major chest) from the less complex procedures such as bypass procedures performed on peripheral vessels or diagnostic biopsies.

As an initial step in our proposed restructuring of these MS–DRGs, we identified the following 26 procedure codes that are currently assigned to MS–DRGs 166, 167, and 168 that we believe represent procedures performed on structures that align more appropriately with the procedures assigned to MS–DRGs 163, 164, and 165 that describe major chest procedures.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02QP4ZZ</td>
<td>Repair pulmonary trunk, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02QQ0ZZ</td>
<td>Repair right pulmonary artery, open approach</td>
</tr>
<tr>
<td>02QQ4ZZ</td>
<td>Repair right pulmonary artery, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02QR0ZZ</td>
<td>Repair left pulmonary artery, open approach</td>
</tr>
<tr>
<td>02QR4ZZ</td>
<td>Repair left pulmonary artery, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02W00Z</td>
<td>Repair thoracic aorta, descending, open approach</td>
</tr>
<tr>
<td>02W4ZZ</td>
<td>Repair thoracic aorta, descending, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02X0ZZ</td>
<td>Repair thoracic aorta, ascending/arch, open approach</td>
</tr>
<tr>
<td>02X4ZZ</td>
<td>Repair thoracic aorta, ascending/arch, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PH000Z</td>
<td>Insertion of rigid plate internal fixation device into sternum, open approach</td>
</tr>
<tr>
<td>0PH004Z</td>
<td>Insertion of internal fixation device into sternum, open approach</td>
</tr>
<tr>
<td>0PH040Z</td>
<td>Insertion of rigid plate internal fixation device into sternum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PH044Z</td>
<td>Insertion of internal fixation device into sternum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PH144Z</td>
<td>Insertion of internal fixation device into 1 to 2 ribs, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PH204Z</td>
<td>Insertion of internal fixation device into 3 or more ribs, open approach</td>
</tr>
<tr>
<td>0PH244Z</td>
<td>Insertion of internal fixation device into 3 or more ribs, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PQ00ZZ</td>
<td>Repair sternum, open approach</td>
</tr>
<tr>
<td>0PQ04ZZ</td>
<td>Repair sternum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PS10ZZ</td>
<td>Reposition 1 to 2 ribs, open approach</td>
</tr>
<tr>
<td>0PS144Z</td>
<td>Reposition 1 to 2 ribs with internal fixation device, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PS204Z</td>
<td>Reposition 3 or more ribs with internal fixation device, open approach</td>
</tr>
<tr>
<td>0PS20ZZ</td>
<td>Reposition 3 or more ribs, open approach</td>
</tr>
<tr>
<td>0PS244Z</td>
<td>Reposition 3 or more ribs with internal fixation device, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0PT00ZZ</td>
<td>Resection of sternum, open approach</td>
</tr>
<tr>
<td>0PT10ZZ</td>
<td>Resection of 1 to 2 ribs, open approach</td>
</tr>
<tr>
<td>0PT20ZZ</td>
<td>Resection of 3 or more ribs, open approach</td>
</tr>
</tbody>
</table>

We analyzed claims data from the March 2020 update of the FY 2019 MedPAR file for the listed procedure codes in MS–DRGs 166, 167, and 168. We note that if a listed procedure code is not displayed, it is because there were no cases found reporting that code among MS–DRGs 166, 167, and 168. Our findings are shown in the following table.
We then analyzed claims data from the September 2020 update of the FY 2020 MedPAR file for the listed procedure codes in MS–DRGs 166, 167, and 168. We note that if a listed procedure code is not displayed, it is because there were no cases found reporting that code among MS–DRGs 166, 167, and 168. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
<th>Frequency</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>02QR0ZZ</td>
<td>Repair left pulmonary artery, open approach</td>
<td>1</td>
<td>1</td>
<td>$3,463</td>
</tr>
<tr>
<td>02QW0ZZ</td>
<td>Repair thoracic aorta, descending, open approach</td>
<td>1</td>
<td>15</td>
<td>$46,829</td>
</tr>
<tr>
<td>0PH204Z</td>
<td>Insertion of internal fixation device into 3 or more ribs, open approach</td>
<td>5</td>
<td>6.4</td>
<td>$23,032</td>
</tr>
<tr>
<td>0PQ00ZZ</td>
<td>Repair sternum, open approach</td>
<td>1</td>
<td>11</td>
<td>$18,388</td>
</tr>
<tr>
<td>0PS10ZZ</td>
<td>Reposition 1 to 2 ribs, open approach</td>
<td>2</td>
<td>6.0</td>
<td>$22,019</td>
</tr>
<tr>
<td>0PS144Z</td>
<td>Reposition 1 to 2 ribs with internal fixation device, percutaneous endoscopic approach</td>
<td>2</td>
<td>8.5</td>
<td>$25,123</td>
</tr>
<tr>
<td>0PS204Z</td>
<td>Reposition 3 or more ribs with internal fixation device, open approach</td>
<td>288</td>
<td>9.47</td>
<td>$44,510</td>
</tr>
<tr>
<td>0PS244Z</td>
<td>Reposition 3 or more ribs with internal fixation device, percutaneous endoscopic approach</td>
<td>3</td>
<td>5.67</td>
<td>$37,069</td>
</tr>
<tr>
<td>0PT10ZZ</td>
<td>Resection of 1 to 2 ribs, open approach</td>
<td>9</td>
<td>10.58</td>
<td>$22,901</td>
</tr>
<tr>
<td>0PT20ZZ</td>
<td>Resection of 3 or more ribs, open approach</td>
<td>2</td>
<td>73.5</td>
<td>$183,630</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
<th>Frequency</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>02QX0ZZ</td>
<td>Repair thoracic aorta, ascending/arch, open approach</td>
<td>2</td>
<td>20</td>
<td>$134,670</td>
</tr>
<tr>
<td>0PH000Z</td>
<td>Insertion of rigid plate internal fixation device into sternum, open approach</td>
<td>2</td>
<td>11.5</td>
<td>$58,192</td>
</tr>
<tr>
<td>0PH004Z</td>
<td>Insertion of internal fixation device into sternum, open approach</td>
<td>4</td>
<td>18.5</td>
<td>$34,164</td>
</tr>
<tr>
<td>0PH044Z</td>
<td>Insertion of internal fixation device into sternum, percutaneous endoscopic approach</td>
<td>1</td>
<td>6</td>
<td>$19,501</td>
</tr>
<tr>
<td>0PH144Z</td>
<td>Insertion of internal fixation device into 1 to 2 ribs, percutaneous endoscopic approach</td>
<td>3</td>
<td>7.7</td>
<td>$26,846</td>
</tr>
<tr>
<td>0PH204Z</td>
<td>Insertion of internal fixation device into 3 or more ribs, open approach</td>
<td>18</td>
<td>10.1</td>
<td>$39,546</td>
</tr>
</tbody>
</table>
We refer the reader to Tables 6P.1e and 6P.1f for detailed claims data for the previously listed procedures in MS-DRGs 163, 164, 165, 166, 167, and 168 from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file, respectively, and note that while some of the 26 listed procedure codes identified in MS-DRGs 166, 167, and 168 may not have been reported in either year’s MedPAR claims data or only had one occurrence in which the procedure was reported, we believe these procedures described by the listed 26 procedure codes are clinically coherent with the other procedures that are currently assigned to MS-DRGs 163, 164, and 165. For example, in our analysis of the March 2020 update of the FY 2019 MedPAR file, as shown in the table, we found procedure code 0PS204Z reported with 344 occurrences with an average length of stay of 9.6 days and average costs of $48,340. We believe procedures described by this procedure code, as well as related procedure codes describing procedures performed to repair or resect the ribs, are more clinically coherent with the procedures assigned to MS-DRGs 163, 164, and 165 and also align more appropriately with the average length of stay and average costs of those MS-DRGs.

As a result of our preliminary review of MS-DRGs 163, 164, 165, 166, 167, and 168, for FY 2022 we are proposing the reassignment of the listed 26 procedure codes (9 procedure codes describing repair of pulmonary or thoracic structures, and 17 procedure codes describing procedures performed on the sternum or ribs) from MS-DRGs 166, 167, and 168 to MS-DRGs 163, 164, and 165 in MDC 04. Our data analysis shows that for the cases reporting any one of the 26 procedure codes, generally, they have an average length of stay and average costs that appear more consistent with the average length of stay and average costs of cases in MS-DRGs 163, 164, and 165. Our clinical advisors also agree that these procedures clinically align with the other procedures that are currently assigned to MS-DRGs 163, 164, and 165. We refer the reader to Table 6P.2c associated with this proposed rule for the list of procedure codes we are proposing for reassignment from MS-DRGs 166, 167, and 168 to MS-DRGs 163, 164, and 165 in MDC 04.

After this initial review of all the procedures currently assigned to MS-DRGs 163, 164, 165, 166, 167, and 168, in combination with the results of the data analysis as reflected in Tables 6P.1e and 6P.1f, our clinical advisors support a phased restructuring of these MS-DRGs. We believe further analysis of the procedures assigned to these MS-DRGs is warranted based on the creation of new procedure codes that have been assigned to these MS-DRGs in recent years for which claims data are not yet available and the need for additional time to examine the procedures currently assigned to those MS-DRGs by clinical intensity, complexity of service and resource utilization. We will continue to evaluate the procedures assigned to these MS-DRGs as additional claims data become available.

5. MDC 05 (Diseases and Disorders of the Circulatory System)

a. Short-Term External Heart Assist Device

Impella® Ventricular Support Systems are temporary heart assist devices intended to support blood pressure and provide increased blood flow to critical organs in patients with cardiogenic shock, by drawing blood out of the heart muscle the opportunity to rest and pumping it into the aorta, partially or fully bypassing the left ventricle to provide adequate circulation of blood (replace or supplement left ventricle pumping) while also allowing damaged heart muscle the opportunity to rest and recover in patients who need short-term support for up to 6 days. The ICD–10–PCS codes that describe the insertion of Impella® heart assist devices are
currently assigned to MS–DRG 215 (Other Heart Assist System Implant). We refer the reader to the ICD–10 MS–DRG Definitions Manual Version 38.1, which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/MS-DRG-Classifications-and-Software for complete documentation of the GROUPER logic for MS–DRG 215.

In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41159 through 41170), we discussed public comments that recommended that CMS continue to monitor the data in MS–DRG 215 for future consideration of distinctions (for example, different approaches and evolving technologies) that may impact the clinical and resource use of procedures utilizing heart assist devices. Our data analysis showed a wide range in the average length of stay and the average costs for cases reporting procedures that involve a biventricular short-term external heart assist system versus a short-term external heart assist system. We noted we were aware that the AHA published Coding Clinic advice that clarified coding and reporting for certain external heart assist devices due to the technology being approved for new indications but the claims data current at that time did not yet reflect that updated guidance. We also noted that there had been recent updates to the descriptions of the codes for heart assist devices. The qualifier “intraoperative” was added effective October 1, 2017 (FY 2018) to the procedure codes describing the insertion of short-term external heart assist system procedures to distinguish between procedures where the device was only used intraoperatively and was removed at the conclusion of the procedure versus procedures where the device was not removed at the conclusion of the procedure and for which that qualifier would not be reported. We agreed with the commenters that continued monitoring of the data and further analysis was necessary prior to proposing any modifications to MS–DRG 215 and finalized our proposal to maintain the current structure of MS–DRG 215 for FY 2019.

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42167) we discussed public comments on our proposals related to recalibration of the FY 2020 relative weights and the changes in relative weights from FY 2019. Several commenters expressed concern about significant reductions to the relative weight for MS–DRG 215. Commenters stated that the reduction in the proposed relative weight was 29 percent, the largest decrease of any MS–DRG; commenters also noted that the cumulative decrease to the relative weight for MS–DRG 215 would be 43 percent since FY 2017. Commenters stated that the proposed relative weights would result in significant underpayments to facilities, which would in turn limit access to heart assist devices. After reviewing the comments received and the data used in our ratesetting calculations, we acknowledged an outlier circumstance where the weight for a MS–DRG was seeing a significant reduction for each of the 3 years since CMS began using the ICD–10 data in calculating the relative weights. Therefore, for the reasons discussed in the FY 2020 final rule, we adopted a temporary one-time measure for FY 2020 where the FY 2020 relative weight was set equal to the FY 2019 relative weight, which in turn had been set equal to the FY 2018 relative weight.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58598) we again acknowledged an outlier circumstance where the weight for MS–DRG 215 was seeing a significant reduction for each of the 4 years since CMS began using the ICD–10 data in calculating the relative weights. We stated while we would ordinarily consider this weight change to be appropriately driven by the underlying data, given the comments received, and in an abundance of caution because this may be the MS–DRG assigned when a hospital provides temporary right ventricular support for up to 14 days in critical care patients for the treatment of heart failure or decompensation caused by complications related to COVID–19, including pulmonary embolism, we adopted a temporary one-time measure for FY 2021 for MS–DRG 215. Specifically, we set the 2021 relative weight for MS–DRG 215 equal to the average of the FY 2020 relative weight and the otherwise applicable FY 2021 weight.

For this FY 2022 IPPS/LTCH PPS proposed rule, we received a request to reassess certain cases reporting procedure codes describing the insertion of a short-term external heart assist device from MS–DRG 215 to MS–DRGs 216, 217, and 218 (Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC, with CC, and without CC/MCC, respectively). According to the requestor, there are two distinct clinical populations within MS–DRG 215: High-risk Percutaneous Coronary Intervention (PCI) patients receiving short-term “intraoperative” external heart assist systems where the device is only used intraoperatively and is removed at the conclusion of the procedure, and those patients in or at risk of cardiogenic shock requiring longer heart pump support and ICU stays. The requestor stated that cases in which short-term external heart assist systems are placed intraoperatively require fewer resources. The requestor suggested that moving the less resource intensive cases that report a procedure code that describes the intraoperative insertion of short-term external heart assist systems from MS–DRG 215 into MS–DRG 216, 217, and 218, will clinically align the two distinctly different patient populations, and consequently will address the potential decrease in the relative weight of MS–DRG 215.

The requestor stated it performed its own analysis of claims in MS–DRG 215 that involve the intraoperative insertion of a short-term external heart assist device (as identified by the presence of ICD–10–PCS codes 02HA3RJ [Insertion of short-term external heart assist system into heart, intraoperative, percutaneous approach] and 5A0221D [Assistance with cardiac output using impeller pump, continuous]). The requestor stated that its analysis found that if procedures involving intraoperative placement of a short-term external heart assist device were moved into MS–DRGs 216, 217 and 218, it would result in an increase in the average costs and average lengths of stay for the cases that would remain to be assigned to MS–DRG 215.

During our review of this issue, we noted that when a patient is admitted and has an Impella® external heart assist device inserted two ICD–10–PCS codes are assigned: A code that describes the insertion of the device and code 5A0221D that describes assistance with an impeller pump. Therefore, our analysis included procedure code 02HA3RJ as identified by the requestor as well as similar procedure codes 02HA0RJ [Insertion of short-term external heart assist system into heart, intraoperative, open approach] and 02HA0RJ [Insertion of short-term external heart assist system into heart, intraoperative, percutaneous endoscopic approach] that also describe the intraoperative insertion of a short-term heart assist device, differing only in approach. Because the assistance with an Impella® is coded with ICD–10–PCS code 5A0221D whether the device is used only intraoperatively or in instances where the device is left in place at the conclusion of the procedure, we did not include this code in our analysis. We note that the requestor suggested that the cases reporting a procedure code describing...
the intraoperative insertion of a short-term external heart assist device be
to MS–DRGs 216, 217 and 218 but these MS–DRGs are defined by the
Cardiac Valve and Other Major
performance of cardiac catheterization.
Therefore, we expanded our analysis to
Cardiothoracic Procedures without
also include MS–DRGs 219, 220 and 221
Cardiac Catheterization with MCC, with
performance of cardiac catheterization. First, we examined claims data from
CC, and without CC/MCC, respectively).
The March 2020 update of the FY 2019
MedPAR file for MS–DRG 215 to
identify cases reporting ICD–10–PCS
codes 02HA0RJ, 02HA3RJ or 02HA4RJ
and a procedure code describing the
performance of a cardiac
catheterization. Our findings are shown
in the following table:

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>215 All cases</td>
<td>7,741</td>
<td>7.8</td>
<td>$68,234</td>
</tr>
<tr>
<td>All intraoperative short-term external heart assist devices with cardiac catheterization</td>
<td>2,943</td>
<td>7.1</td>
<td>$60,449</td>
</tr>
<tr>
<td>02HA0RJ with cardiac catheterization</td>
<td>23</td>
<td>8.9</td>
<td>$85,806</td>
</tr>
<tr>
<td>02HA3RJ with cardiac catheterization</td>
<td>2,904</td>
<td>7.1</td>
<td>$60,227</td>
</tr>
<tr>
<td>02HA4RJ with cardiac catheterization</td>
<td>16</td>
<td>6.4</td>
<td>$64,217</td>
</tr>
<tr>
<td>MS–DRGs 216, 217 and 218</td>
<td>5,603</td>
<td>16.7</td>
<td>$74,413</td>
</tr>
<tr>
<td>217</td>
<td>1,885</td>
<td>9.5</td>
<td>$47,159</td>
</tr>
<tr>
<td>218</td>
<td>210</td>
<td>6.6</td>
<td>$37,778</td>
</tr>
</tbody>
</table>

As shown in the table, we identified
a total of 7,741 cases within MS–DRG 215 with an average length of stay of 7.8 days and average costs of $68,234. Of these 7,741 cases, there are 2,943 cases that include both a procedure code describing the intraoperative insertion of a short-term external heart assist device and a procedure code describing the performance of a cardiac catheterization with an average length of stay of 7.1 days and average costs of $60,449. Of these 2,943 cases, there are 23 cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization with an average length of stay of 8.9 days and average costs of $85,806. There are 2,904 cases reporting a procedure code describing a percutaneous insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization with an average length of stay of 7.1 days and average costs of $60,227. There are 16 cases reporting a procedure code describing a percutaneous endoscopic intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization approach with an average length of stay of 6.4 days and average costs of $64,217. The data analysis shows that for the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ with a procedure code describing the performance of a cardiac catheterization, generally, the average length of stay is shorter and the average costs are lower than the average length of stay and average costs (with the exception of the average costs and length of stay for the 23 cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization which are higher) compared to all cases in that MS–DRG.

We also examined claims data from the March 2020 update of the FY 2019 MedPAR file for MS–DRGs 216, 217 and 218. Our findings are shown in the following table:

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>216</td>
<td>5,603</td>
<td>16.7</td>
<td>$74,413</td>
</tr>
<tr>
<td>217</td>
<td>1,885</td>
<td>9.5</td>
<td>$47,159</td>
</tr>
<tr>
<td>218</td>
<td>210</td>
<td>6.6</td>
<td>$37,778</td>
</tr>
</tbody>
</table>

Because MS–DRG 215 is a base DRG and there is a three-way split within
MS–DRGs 216, 217, and 218, we also analyzed the cases reporting a
procedure code describing the
intraoperative insertion of a short-term
external heart assist device with a
procedure code describing the
performance of a cardiac catheterization
for the presence or absence of a
secondary diagnosis designated as a
complication or comorbidity (CC) or a
major complication or comorbidity (MCC).
This data analysis shows the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ with a procedure code describing the performance of a cardiac catheterization when distributed based on the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC) have average costs generally more similar to the average costs in the FY 2019 MedPAR file for MS–DRGs 216, 217 and 218 respectively, while the average lengths of stay are shorter.

While the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization “with CC” and “without CC/MCC” have higher average costs than the average costs of MS–DRGs 217 and 218, these costs are closer to the average costs of those MS–DRGs than they are to the average costs of MS–DRG 215. The average costs of the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization “with MCC” are lower than the average costs of both MS–DRGs 215 and 216.

Next, we examined claims data from the March 2020 update of the FY 2019 MedPAR file for MS–DRG 215 to identify cases reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ without a procedure code describing the performance of a cardiac catheterization. Our findings are shown in the following table:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ with cardiac catheterization with MCC</td>
<td>1,886</td>
<td>9</td>
<td>$66,524</td>
</tr>
<tr>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ with cardiac catheterization with CC</td>
<td>778</td>
<td>4.1</td>
<td>$49,481</td>
</tr>
<tr>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ with cardiac catheterization without CC/MCC</td>
<td>278</td>
<td>2.5</td>
<td>$49,942</td>
</tr>
</tbody>
</table>

As shown in the table, of the 7,741 cases within MS–DRG 215, there are 432 cases that include a procedure code describing the intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization with an average length of stay of 4.8 days and average costs of $53,607. Of these 432 cases, there are eight cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization with an average length of stay of 8.8 days and average costs of $141,242. There are 423 cases reporting a procedure code describing a percutaneous intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization with an average length of stay of 4.7 days and average costs of $51,964. There is one case reporting a procedure code describing a percutaneous endoscopic intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization approach with a length of stay of 2 days and costs of $47,289. The data analysis shows that for the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ without a
procedure code describing the performance of a cardiac catheterization, generally, the average length of stay is shorter and the average costs are lower than the average length of stay and average costs (with the exception of the average costs and length of stay for the eight cases describing the open intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization which are higher) compared to all cases in that MS–DRG.

We also examined claims data from the March 2020 update of the FY 2019 MedPAR file for MS–DRGs 219, 220 and 221. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>219</td>
<td>15,597</td>
<td>10.9</td>
<td>$57,845</td>
</tr>
<tr>
<td>220</td>
<td>15,074</td>
<td>6.5</td>
<td>$39,565</td>
</tr>
<tr>
<td>221</td>
<td>2,417</td>
<td>4.5</td>
<td>$33,560</td>
</tr>
</tbody>
</table>

Similarly, because MS–DRG 215 is a base DRG and there is a three-way split within MS–DRGs 219, 220 and 221, we also analyzed the cases reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization for the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC).

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for MS–DRG 215 to identify cases reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ without a procedure code describing the performance of a cardiac catheterization when distributed based on the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC).

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ without cardiac catheterization with MCC</td>
<td>205</td>
<td>7.3</td>
</tr>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ without cardiac catheterization with CC</td>
<td>158</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ without cardiac catheterization without CC/MCC</td>
<td>68</td>
<td>1.4</td>
</tr>
</tbody>
</table>

This data analysis shows the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ without a procedure code describing the performance of a cardiac catheterization when distributed based on the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC) have average costs generally more similar to the average costs in the FY 2019 MedPAR file for MS–DRGs 219, 220 and 221 respectively, while the average lengths of stay are shorter.

While the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device, without a procedure code describing the performance of a cardiac catheterization “with MCC”, “with CC” and “without CC/MCC” have higher average costs than the average costs MS–DRGs 219, 220 and 221, respectively, these costs are closer to the average costs of those MS–DRGs than they are to the average costs of MS–DRG 215.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for MS–DRG 215 to identify cases reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ with a procedure code describing the performance of a cardiac catheterization. Our findings are shown in the following table:

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ without cardiac catheterization with MCC</td>
<td>205</td>
<td>7.3</td>
</tr>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ without cardiac catheterization with CC</td>
<td>158</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ without cardiac catheterization without CC/MCC</td>
<td>68</td>
<td>1.4</td>
</tr>
</tbody>
</table>
As shown in the table, we identified a total of 6,275 cases within MS–DRG 215 with an average length of stay of 7.9 days and average costs of $72,144. Of these 6,275 cases, there are 2,395 cases that include both a procedure code describing the intraoperative insertion of a short-term external heart assist device and a procedure code describing the performance of a cardiac catheterization with an average length of stay of 6.8 days and average costs of $62,260. These 2,395 cases, there were 25 cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization with an average length of stay of 8.2 days and average costs of $85,954. There are 2,360 cases reporting a procedure code describing a percutaneous intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization with an average length of stay of 6.9 days and average costs of $61,965. There are 10 cases reporting a procedure code describing a percutaneous endoscopic intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization with an average length of stay of 6.9 days and average costs of $72,564. The data analysis shows that for the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ with a procedure code describing the performance of a cardiac catheterization, when examined collectively, the average length of stay is shorter (6.8 days versus 7.9 days) and the average costs are lower ($62,260 versus $72,144) than the average length of stay and average costs (of all cases in that MS–DRG). There were some differences noted in cases reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization when examined by operative approach. For the 25 cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization, the average costs were higher ($85,954 versus $72,144) and average length of stay was slightly longer (8.2 days versus 7.9 days) when compared to all cases in that MS–DRG. For the 10 cases reporting a procedure code describing the percutaneous endoscopic intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization, the average costs were nearly equal ($72,564 versus $72,144) and average length of stay was shorter (6.9 days versus 7.9 days) when compared to all cases in that MS–DRG.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for MS–DRGs 216, 217 and 218. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>216</td>
<td>4,279</td>
<td>16.5</td>
<td>$79,786</td>
</tr>
<tr>
<td>217</td>
<td>1,310</td>
<td>9.4</td>
<td>$49,109</td>
</tr>
<tr>
<td>218</td>
<td>121</td>
<td>6.6</td>
<td>$43,504</td>
</tr>
</tbody>
</table>

Because MS–DRG 215 is a base DRG and there is a three-way split within MS–DRGs 216, 217, and 218, we also analyzed the cases reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization for the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC).
This data analysis shows the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ with a procedure code describing the performance of a cardiac catheterization when distributed based on the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC) have average costs generally more similar to the average costs in the FY 2020 MedPAR file for MS–DRGs 216, 217 and 218 respectively, while the average lengths of stay are shorter.

While the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization “with CC” and “without CC/MCC” have higher average costs than the average costs of MS–DRGs 217 and 218, these costs are closer to the average costs of those MS–DRGs than they are to the average costs of MS–DRG 215. The average costs of the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device with a procedure code describing the performance of a cardiac catheterization “with MCC” are lower than the average costs of both MS–DRGs 215 and 216.

Next, we examined claims data from the September 2020 update of the FY 2020 MedPAR file for MS–DRGs 216, 217 and 218 respectively, while the average lengths of stay are shorter.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ with cardiac catheterization with MCC</td>
<td>1,522</td>
<td>8.7</td>
</tr>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ with cardiac catheterization with CC</td>
<td>632</td>
<td>3.8</td>
</tr>
<tr>
<td></td>
<td>02HA0RJ, 02HA3RJ or 02HA4RJ with cardiac catheterization without CC/MCC</td>
<td>241</td>
<td>2.5</td>
</tr>
</tbody>
</table>

As shown in the table, of the 6,275 cases within MS–DRG 215, there are 331 cases that include a procedure code describing the intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization with an average length of stay of 4.5 days and average costs of $52,181. Of these 331 cases, there are eight cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization with an average length of stay of 8.9 days and average costs of $80,314. There are 332 cases reporting a procedure code describing a percutaneous intraprocedural insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization with an average length of stay of 4.4 days and average costs of $51,569. There is one case reporting a procedure code describing a percutaneous endoscopic intraprocedural insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization approach with a length of stay of 2 days and costs of $24,379. The data analysis shows that for the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ without a
procedure code describing the performance of a cardiac catheterization, generally, the average length of stay is shorter and the average costs are lower than the average length of stay and average costs (with the exception of the average costs and length of stay for the eight cases reporting a procedure code describing the open intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization which are higher) compared to all cases in that MS–DRG.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for MS–DRGs 219, 220 and 221. Our findings are shown in the following table.

| MS–DRG | Number of Cases | Average Length of Stay | Average Costs  
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>219</td>
<td>11,863</td>
<td>10.9</td>
<td>$61,934</td>
</tr>
<tr>
<td>220</td>
<td>10,072</td>
<td>6.5</td>
<td>$41,800</td>
</tr>
<tr>
<td>221</td>
<td>1,440</td>
<td>4.2</td>
<td>$36,242</td>
</tr>
</tbody>
</table>

Similarly, because MS–DRG 215 is a base DRG and there is a three-way split within MS–DRGs 219, 220 and 221, we also analyzed the 331 cases reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization for the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC).

| MS–DRG | Number of Cases | Average Length of Stay | Average Costs  
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>161</td>
<td>6.5</td>
<td>$57,285</td>
</tr>
<tr>
<td>215</td>
<td>103</td>
<td>3.0</td>
<td>$47,996</td>
</tr>
<tr>
<td>215</td>
<td>67</td>
<td>1.7</td>
<td>$46,352</td>
</tr>
</tbody>
</table>

This data analysis shows the cases in MS–DRG 215 reporting ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ without a procedure code describing the performance of a cardiac catheterization when distributed based on the presence or absence of a secondary diagnosis designated as a complication or comorbidity (CC) or a major complication or comorbidity (MCC) have average costs generally more similar to the average costs in the FY 2020 MedPAR file for MS–DRGs 219, 220 and 221 respectively, while the average lengths of stay are shorter. While the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization “with CC” and “without CC/MCC” have higher average costs than the average costs of MS–DRGs 220 and 221, these costs are closer to the average costs of those MS–DRGs than they are to the average costs of MS–DRG 215. The average costs of the cases from MS–DRG 215 reporting a procedure code describing the intraoperative insertion of a short-term external heart assist device without a procedure code describing the performance of a cardiac catheterization “with MCC” are lower than the average costs of both MS–DRGs 215 and 219.

Our clinical advisors reviewed the clinical issues and the claims data and agreed that cases reporting a procedure code that describes the intraoperative insertion of a short-term external heart assist device are generally less resource intensive and are clinically distinct from other cases reporting procedure codes describing the insertion of other types of heart assist devices currently assigned to MS–DRG 215. Our clinical advisors state that critically ill patients who are experiencing or at risk for cardiogenic shock from an emergent event such as heart attack or virus that impacts the functioning of the heart and requires longer heart pump support are different from those patients who require intraoperative support only. Patients receiving a short-term external heart assist device intraoperatively during coronary interventions often have an underlying disease pathology such as heart failure related to occluded coronary vessels that is broadly similar in kind to other patients also receiving these interventions without the need for an insertion of a short-term external heart assist device. In the post-operative period, these patients can recover and can be sufficiently rehabilitated prior to discharge. For these reasons, our clinical advisors support reassigning...
ICD–10–PCS codes 02HA0RJ, 02HA3RJ, and 02HA4RJ that describe the intraoperative insertion of a short-term external heart assist device to MS–DRGs 216, 217, 218, 219, 220 and 221 in MDC 05. They stated this reassignment would improve clinical coherence in these MS–DRGs.

To compare and analyze the impact of our suggested modifications, we ran a simulation using the Version 38.1 ICD–10 MS–DRG GROUPER and the claims data from the March 2020 update of the FY 2019 MedPAR file. The following table reflects our simulation for ICD–10–PCS procedure codes 02HA0RJ, 02HA3RJ or 02HA4RJ that describe the intraoperative insertion of a short-term external heart assist device if they were moved to MS–DRGs 216, 217, 218, 219, 220 and 221.

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>7,741</td>
<td>7.8</td>
<td>$68,234</td>
</tr>
<tr>
<td>216</td>
<td>5,603</td>
<td>16.7</td>
<td>$74,413</td>
</tr>
<tr>
<td>217</td>
<td>7,490</td>
<td>14.8</td>
<td>$72,424</td>
</tr>
<tr>
<td>218</td>
<td>1,885</td>
<td>9.5</td>
<td>$47,159</td>
</tr>
<tr>
<td>219</td>
<td>2,663</td>
<td>7.9</td>
<td>$47,837</td>
</tr>
<tr>
<td>220</td>
<td>210</td>
<td>6.6</td>
<td>$37,778</td>
</tr>
<tr>
<td>221</td>
<td>7,490</td>
<td>10.9</td>
<td>$57,845</td>
</tr>
<tr>
<td>222</td>
<td>17,484</td>
<td>10.7</td>
<td>$58,781</td>
</tr>
<tr>
<td>223</td>
<td>15,074</td>
<td>6.5</td>
<td>$39,565</td>
</tr>
<tr>
<td>224</td>
<td>15,852</td>
<td>6.4</td>
<td>$40,052</td>
</tr>
<tr>
<td>225</td>
<td>2,417</td>
<td>4.5</td>
<td>$33,560</td>
</tr>
<tr>
<td>226</td>
<td>2,695</td>
<td>4.3</td>
<td>$35,250</td>
</tr>
</tbody>
</table>

We believe the resulting proposed MS–DRG assignments would be more clinically homogeneous, coherent and better reflect hospital resource use while at the same time addressing concerns related to the relative weight of MS–DRG 215. A review of this simulation shows that this distribution of ICD–10–PCS codes 02HA0RJ, 02HA3RJ or 02HA4RJ that describe the intraoperative insertion of a short-term external heart assist device if moved to MS–DRGs 216, 217, 218, 219, 220 and 221, increases the average costs of the cases remaining in MS–DRG 215 by over $4,500, while generally having a more limited effect on the average costs of MS–DRGs 216, 217, 218, 219, 220 and 221.

We also ran a simulation using the Version 38.1 ICD–10 MS–DRG GROUPER and the claims data from the September 2020 update of the FY 2020 MedPAR file. The following table reflects our simulation for ICD–10–PCS procedure codes 02HA0RJ, 02HA3RJ or 02HA4RJ that describe the intraoperative insertion of a short-term external heart assist device if they were moved to MS–DRGs 216, 217, 218, 219, 220 and 221.
As with our simulation based on the March 2020 update of the FY 2019 MedPAR file, we believe that this simulation supports that the resulting proposed MS–DRG assignments would be more clinically homogeneous, coherent and better reflect hospital resource use while at the same time addressing concerns related to the relative weight of MS–DRG 215. A review of this simulation shows that this distribution of ICD–10–PCS codes 02HA0RJ, 02HA3RJ, or 02HA4RJ that describe the intraoperative insertion of a short-term external heart assist device if moved to MS–DRGs 216, 217, 218, 219, 220 and 221, increases the average costs of the cases remaining in MS–DRG 215 by over $6,000, while generally having a more limited effect on the average costs of MS–DRGs 216, 217, 218, 219, 220 and 221.

Therefore, for FY 2022, we are proposing to reassign ICD–10–PCS codes 02HA0RJ, 02HA3RJ, and 02HA4RJ from MDC 05 in MS–DRG 215 to MS–DRGs 216, 217, 218, 219, 220 and 221 in MDC 05.

b. Type II Myocardial Infarction

We received a request to review the MS–DRG assignment of ICD–10–CM diagnosis code I21.A1 (Myocardial infarction type 2). The requestor stated that when a type 2 myocardial infarction is documented, per coding guidelines, it is to be coded as a secondary diagnosis since it is due to an underlying cause. This requestor also noted that when a type 2 myocardial infarction is coded with a principal diagnosis in MDC 05 (Diseases and Disorders of the Circulatory System), the GROUPER logic assigns MS–DRGs 280 through 282 (Acute Myocardial Infarction, Discharged Alive with MCC, with CC, and without CC/MCC, respectively). The requestor questioned if this GROUPER logic was correct or if the logic should be changed so that a type 2 myocardial infarction, coded as a secondary diagnosis, does not result in the assignment of a MS–DRG that describes an acute myocardial infarction.

To begin our analysis, we reviewed the GROUPER logic. The requestor noted that when diagnosis code I21.A1 is reported as a secondary diagnosis in combination with a principal diagnosis in MDC 05, the case currently groups to medical MS–DRGs 280 through 282 in the absence of a surgical procedure, when the patient is discharged alive. We believe that cases reporting diagnosis code I21.A1, Myocardial infarction type 2 MI is defined as a mismatch in myocardial oxygen supply and demand due to other causes such as coronary dissection, vasospasm, emboli, or hypotension that is not attributed to unstable coronary artery disease (CAD).

Our clinical advisors reviewed this issue and do not recommend changing the current MS–DRG assignment of ICD–10–CM diagnosis code I21.A1. As noted by the requestor, the ICD–10–CM Official Guidelines for Coding and Reporting state “Type 2 myocardial infarction, (myocardial infarction due to demand ischemia or secondary to ischemic imbalance) is assigned to code I21.A1. Myocardial infarction type 2 with a code for the underlying cause coded first.” Our clinical advisors believe that cases reporting diagnosis code I21.A1 as a secondary diagnosis are associated with a severity of illness on par with cases reporting a principal diagnosis of another type myocardial infarction. They state the diagnosis of myocardial infarction describes myocardial cell death due to inadequate

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>All Cases</td>
<td>6,275</td>
<td>7.9</td>
</tr>
<tr>
<td>215</td>
<td>without 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>3,880</td>
<td>8.6</td>
</tr>
<tr>
<td>216</td>
<td>All Cases</td>
<td>4,279</td>
<td>16.5</td>
</tr>
<tr>
<td>216</td>
<td>with 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>5,801</td>
<td>14.5</td>
</tr>
<tr>
<td>217</td>
<td>All Cases</td>
<td>1,310</td>
<td>9.4</td>
</tr>
<tr>
<td>217</td>
<td>with 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>1,942</td>
<td>7.6</td>
</tr>
<tr>
<td>218</td>
<td>All Cases</td>
<td>121</td>
<td>6.6</td>
</tr>
<tr>
<td>218</td>
<td>with 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>362</td>
<td>3.8</td>
</tr>
<tr>
<td>219</td>
<td>All Cases</td>
<td>11,863</td>
<td>10.9</td>
</tr>
<tr>
<td>219</td>
<td>with 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>13,385</td>
<td>10.7</td>
</tr>
<tr>
<td>220</td>
<td>All Cases</td>
<td>10,072</td>
<td>6.5</td>
</tr>
<tr>
<td>220</td>
<td>with 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>10,704</td>
<td>6.3</td>
</tr>
<tr>
<td>221</td>
<td>All Cases</td>
<td>1,440</td>
<td>4.2</td>
</tr>
<tr>
<td>221</td>
<td>with 02HA0RJ, 02HA3RJ or 02HA4RJ</td>
<td>1,681</td>
<td>4.0</td>
</tr>
</tbody>
</table>
oxygen supply to the myocardium for a prolonged period, regardless of the subtype. Our clinical advisors state, for clinical consistency, it is more appropriate to maintain the current assignment of ICD–10–CM diagnosis code I21.A1 with the other codes that describe myocardial infarction. Therefore, we are not proposing to reassign diagnosis code I21.A1 from MS–DRGs 280 through 285.

During our review of this issue we noted that code I21.A1 (Myocardial infarction type 2) is currently one of the listed principal diagnoses in the GROUPEr logic for MS–DRGs 222 and 223 (Cardiac Defibrillator Implant with Cardiac Catheterization with AMI, HF or Shock with and without MCC, respectively). However, code I21.A1 is not currently recognized in these same MS–DRGs when coded as a secondary diagnosis. As a result, when coded as a secondary diagnosis in combination with a principal diagnosis in MDC 05, MS–DRGs 224 and 225 (Cardiac Defibrillator Implant with Cardiac Catheterization with AMI, HF, or Shock with and without MCC, respectively) are instead assigned when reported with a listed procedure code. We refer the reader to the ICD–10 MS–DRG Definitions Manual Version 38.1, which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/MS-DRG-Classifications-and-Software for complete documentation of the GROUPEr logic for MS–DRGs 222, 223, 224, and 225.

Acknowledging that coding guidelines in effect to code I21.A1 after the diagnosis code that describes the underlying cause, our clinical advisors recommend adding special logic in MS–DRGs 222 and 223 to have code I21.A1 also qualify when coded as a secondary diagnosis in combination with a principal diagnosis in MDC 05 since these diagnosis code combinations also describe acute myocardial infarctions.

As a result, we are proposing modifications to the GROUPEr logic to allow cases reporting diagnosis code I21.A1 (Myocardial infarction type 2) as a secondary diagnosis to group to MS–DRGs 222 and 223 when reported with a listed procedure code for clinical consistency with the other MS–DRGs describing acute myocardial infarction.

A diagnosis code may define the logic for a specific MS–DRG assignment in three different ways. The diagnosis code may be listed as principal or as any one of the secondary diagnoses, as a secondary diagnosis, or only as a secondary diagnosis as noted in more detail in this proposed rule.

- **Principal or secondary diagnoses.** Indicates that a specific set of diagnoses are used in the definition of the MS–DRG. The diagnoses may be listed as principal or as any one of the secondary diagnoses. A special case of this condition is MS–DRG 008 in which two diagnoses (for example, renal and diabetic) must both be present somewhere in the list of diagnoses in order to be assigned to MS–DRG 008.

- **Secondary diagnoses.** Indicates that a specific set of secondary diagnoses are used in the definition of the MS–DRG. For example, a secondary diagnosis of acute leukemia with chemotherapy is used to define MS–DRG 839.

- **Only secondary diagnoses.** Indicates that in order to be assigned to the specified MS–DRG no secondary diagnoses other than those in the specified list may appear on the patient’s record. For example, in order to be assigned to MS–DRG 795, only secondary diagnoses from the specified list may appear on the patient’s record.

We note that whenever there is a secondary diagnosis component to the MS–DRG logic, the diagnosis code can either be used in the logic for assignment to the MS–DRG or to act as a CC/MCC. For this specific scenario, we propose that code I21.A1, as a secondary diagnosis, be used in the definition of the logic for assignment to MS–DRGs 222 and 223, similar to the example described previously, where a secondary diagnosis of acute leukemia with chemotherapy is used to define MS–DRG 839, and therefore will not act as a MCC in these MS–DRGs.

In summary, for FY 2022, we are proposing to maintain the current structure of MS–DRGs 280 through 285. We are also proposing to modify the GROUPEr logic to allow cases reporting diagnosis code I21.A1 (Myocardial infarction type 2) as a secondary diagnosis to group to MS–DRGs 222 and 223 when reported with qualifying procedures.

- **c. Viral Cardiomyopathy**

We received three separate but related requests to add ICD–10–CM diagnosis code B33.24 (Viral cardiomyopathy) to the list of principal diagnoses for MS–DRGs 314, 315, and 316 (Other Circulatory System Diagnoses with MCC, with CC, and without CC/MCC, respectively) in MDC 05. The requestors noted that a discontinuity exists in the current MDC assignment of diagnosis codes in ICD–10–CM subcategory B33.2. The list of the five ICD–10–CM diagnosis codes in subcategory B33.2, as well as their current MDC assignments, is found in the following table.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
<th>MDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>B33.20</td>
<td>Viral carditis, unspecified</td>
<td>05</td>
</tr>
<tr>
<td>B33.21</td>
<td>Viral endocarditis</td>
<td>05</td>
</tr>
<tr>
<td>B33.22</td>
<td>Viral myocarditis</td>
<td>05</td>
</tr>
<tr>
<td>B33.23</td>
<td>Viral pericarditis</td>
<td>05</td>
</tr>
<tr>
<td>B33.24</td>
<td>Viral cardiomyopathy</td>
<td>18</td>
</tr>
</tbody>
</table>

A requestor noted ICD–10–CM codes B33.20, B33.21, B33.22, and B33.23 are assigned to MDC 05 (Diseases and Disorders of the Circulatory System), while code B33.24 is assigned to MDC 18 (Infectious and Parasitic Diseases, Systemic or Unspecified Sites). The requestor stated that the placement of ICD–10–CM diagnosis code B33.24 within subcategory B33.2 is clinically appropriate, as all the diagnoses within this subcategory share a common etiology, involve the heart and supporting structures, and require the same intensity of hospital care. However, the assignment of code B33.24 to a different MDC is clinically incongruous with the placement of the other codes in the subcategory. According to the requestor, all of the conditions share similar etiology, anatomic location, and needs for care, therefore the five codes should all be assigned to MDC 05. This requestor also stated that reassigning code B33.24 to MDC 05 would ensure both clinical continuity and coding consistency within the B33.2 subcategory. Another requestor stated MDC 05 surgical MS–DRGs should be assigned when
procedures such as cardiac catheterization or coronary angioplasty are performed for a principal diagnosis of viral cardiomyopathy.

To begin our analysis, we reviewed the GROUPER logic. Currently, cases reporting ICD–10–CM diagnosis code B33.24 as a principal diagnosis group to medical MS–DRGs 865 and 866 (Viral Illness with and without MCC, respectively) in MDC 18 in the absence of a surgical procedure. Our clinical advisors reviewed this issue and noted viral cardiac infections may present as endocarditis (inflammation of the heart’s inner lining), myocarditis (inflammation of the middle layer of the heart), pericarditis (inflammation of the pericardium), or cardiomyopathy (disease of the heart muscle). The infection usually begins somewhere other than the heart, often in the nose, lungs, or stomach. As the infection progresses, and the microbe multiplies and gets into the bloodstream, it can infiltrate the heart muscle. The growth and replication of viruses inside the heart can endanger the heart by destroying heart cells. The management of viral cardiomyopathy is similar to the management of other viral cardiac infections and can include bed rest, control of pain with non-steroidal anti-inflammatory agents and anti-microbial therapy to avoid permanent myocardial damage, cardiomegaly, and/or congestive cardiac failure.

Our clinical advisors agree that the diagnosis of viral cardiomyopathy is clinically related to the other diagnoses in ICD–10–CM subcategory B33.2. They believe it is clinically appropriate for all five diagnoses in subcategory B33.2 to group to MDC 05 (Diseases and Disorders of the Circulatory System) as these conditions describe circulatory system conditions and complications and that this modification will improve clinical coherence. Therefore, we are proposing to reassign ICD–10–CM diagnosis code B33.24 from MDC 18 in MS DRGs 865 and 866 (Viral Illness with and without MCC, respectively) to MDC 05 in MS DRGs 314, 315, and 316 (Other Circulatory System Diagnoses with MCC, with CC, and without CC/ MCC, respectively). Under this proposal, cases reporting procedure codes from MDC 05 in conjunction with principal diagnosis B33.24, would group to MS–DRGs in MDC 05.

d. Left Atrial Appendage Closure (LAAC)

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58471 through 58477), we identified nine ICD–10–PCS procedure codes that describe Left Atrial Appendage Closure (LAAC) procedures and noted their corresponding MS–DRG assignments in the ICD–10 MS–DRGs Version 37 as listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02L70CK</td>
<td>250-251</td>
<td>Occlusion of left atrial appendage with extraluminal device, open approach</td>
</tr>
<tr>
<td>02L70DK</td>
<td>250-251</td>
<td>Occlusion of left atrial appendage with intraluminal device, open approach</td>
</tr>
<tr>
<td>02L70ZK</td>
<td>250-251</td>
<td>Occlusion of left atrial appendage, open approach</td>
</tr>
<tr>
<td>02L73CK</td>
<td>273-274</td>
<td>Occlusion of left atrial appendage with extraluminal device, percutaneous approach</td>
</tr>
<tr>
<td>02L73DK</td>
<td>273-274</td>
<td>Occlusion of left atrial Appendage with intraluminal device, percutaneous approach</td>
</tr>
<tr>
<td>02L73ZK</td>
<td>273-274</td>
<td>Occlusion of left atrial appendage, percutaneous approach</td>
</tr>
<tr>
<td>02L74CK</td>
<td>273-274</td>
<td>Occlusion of left atrial appendage with extraluminal device, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02L74DK</td>
<td>273-274</td>
<td>Occlusion of left atrial appendage with intraluminal device, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02L74ZK</td>
<td>273-274</td>
<td>Occlusion of left atrial appendage, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

As discussed in the FY 2021 IPPS/LTCH PPS final rule, we examined claims data from the September 2019 update of the FY 2019 MedPAR file for cases reporting LAAC procedures with an open approach in MS–DRGs 250 and 251 (Percutaneous Cardiovascular Procedures without Coronary Artery Stent with and without MCC, respectively). Our analysis showed that the cases reporting a LAAC procedure with an open approach in MS–DRGs 250 and 251 had higher average costs and longer average length of stay compared to all cases in MS–DRGs 250 and 251. We also noted our clinical advisors believed that ICD–10–PCS codes 02L70CK, 02L70DK, and 02L70ZK that describe a LAAC procedure with an open approach were more suitably grouped to MS–DRGs 273 and 274 (Percutaneous Intracardiac Procedures with and without MCC, respectively). Therefore, we finalized our proposal to reassign ICD–10–PCS procedure codes 02L70CK, 02L70DK, and 02L70ZK from MS–DRGs 250 and 251 to MS–DRGs 273 and 274. We also finalized a revision to the titles for MS–DRG 273 and 274 to Percutaneous and Other Intracardiac Procedures with and without MCC, respectively. The requestor stated they believe that MS–DRGs 228 and 229 (Other Cardiothoracic Procedures with and without MCC, respectively) would more appropriately correspond with the open procedural resources and longer length of stay expected with open heart procedures.

In response to this final policy, for this FY 2022 IPPS/LTCH PPS proposed rule, we received a request to again review the MS–DRG assignment of cases involving LAAC procedures with an open approach. The requestor disagreed with CMS’s FY 2021 IPPS/LTCH PPS final rule decision to move the three procedure codes describing the open occlusion of left atrial appendage to MS–DRGs 273 and 274 (Percutaneous and Other Intracardiac Procedures with and without MCC, respectively). The requestor stated they believe that MS–DRGs 228 and 229 (Other Cardiothoracic Procedures with and without MCC, respectively) would more appropriately correspond with the open procedural resources and longer length of stay expected with open heart procedures.

Our clinical advisors reviewed this request and continue to support the reassignment of ICD–10–PCS procedure
codes 02L70CK, 02L70DK, and 02L70ZK from MS–DRGs 250 and 251 to MS–DRGs 273 and 274 because it allows all LAAC procedures to be grouped together under the same MS–DRGs and improves clinical coherence. Our clinical advisors state open LAAC procedures are primarily performed in the absence of another O.R. procedure and generally are not performed with a more intensive open chest procedure. When performed as standalone procedures, open LAAC procedures share similar factors such as complexity and resource utilization with all other LAAC procedures. Our clinical advisors continue to state our FY 2021 final policy results in MS–DRG assignments that are more clinically homogeneous and better reflect hospital resource use. Therefore, we are proposing to maintain the assignment of codes 02L70CK, 02L70DK, and 02L70ZK that describe the open occlusion of the left atrial appendage in MS–DRGs 273 and 274.

e. Surgical Ablation

We received a two-part request to review the MS–DRG assignments for cases involving the surgical ablation procedure for atrial fibrillation. Atrial fibrillation (AF) is an irregular and often rapid heart rate that occurs when the two upper chambers of the heart experience chaotic electrical signals. AF presents as either paroxysmal (lasting <7 days), persistent (lasting >7 days, but less than 1 year), or long standing persistent (chronic) (lasting >1 year) based on time duration and can increase the risk for stroke, heart failure, and mortality. Management of AF has two primary goals: Optimizing cardiac output through rhythm or rate control, and decreasing the risk of cerebral and systemic thromboembolism. Patients that worsen in symptomology or fail to respond to pharmacological treatment or other interventions may be referred for surgical ablation to treat their AF. Surgical ablation is a procedure that works by burning or freezing tissue on the inside of the heart to disrupt faulty electrical signals causing the arrhythmia, which can help the heart maintain a normal heart rhythm.

The first part of this request was to create a new classification of surgical ablation MS–DRGs to better accommodate the costs of open concomitant surgical ablations. According to the requestor, patients undergoing surgical ablation are treated under two potential scenarios: (1) Open concomitant (combination) surgical ablation, meaning open surgical ablation performed during another open-heart surgical procedure such as mitral valve repair or replacement (MVR), aortic valve repair or replacement (AVR), or coronary artery bypass grafting (CABG) and (2) minimally invasive, percutaneous endoscopic, standalone surgical ablation as the sole therapeutic procedure performed. According to the requestor, open concomitant surgical ablation is an efficient procedure, as it allows treatment of AF and another clinical pathology in one procedure thereby decreasing the risk of future readmits, need for future repeat catheter ablation procedures, and patient mortality.

The requestor identified the following potential procedure combinations that would comprise an “open concomitant surgical ablation” procedure.

- Open CABG + open surgical ablation
- Open MVR + open surgical ablation
- Open AVR + open surgical ablation
- Open MVR + open AVR + open surgical ablation
- Open MVR + open CABG + open surgical ablation
- Open MVR + open AVR + open CABG + open surgical ablation
- Open AVR + open CABG + open surgical ablation

The requestor performed its own analysis of these procedure code combinations and stated that it found the average costs for open concomitant surgical ablation procedures were consistently higher compared to the average costs within their respective MS–DRGs, which could limit beneficiary access to these procedures. The requestor suggested that the following four MS–DRGs be created to address the differences in average costs and average lengths of stay it found in its data analysis:

- Suggested New MS–DRG XXX—Open Surgical Ablation with or without Other Cardiopulmonary Procedure with Cardiac Catheterization with MCC;
- Suggested New MS–DRG XXX—Open Surgical Ablation with or without Other Cardiopulmonary Procedure with Cardiac Catheterization without MCC;
- Suggested New MS–DRG XXX—Open Surgical Ablation with or without Other Cardiopulmonary Procedure without Cardiac Catheterization with MCC; and
- Suggested New MS–DRG XXX—Open Surgical Ablation with or without Other Cardiopulmonary Procedure without Cardiac Catheterization without MCC.

In reviewing this request, we identified nine ICD–10–PCS codes that describe open surgical ablation. These codes and their corresponding MDC and MS–DRG assignments are listed in the following table.
In the ICD–10 MS–DRGs Definitions Manual Version 38.1, for open concomitant surgical ablation procedures, the GROUPER logic assigns MS–DRGs 228 and 229 (Other Cardiothoracic Procedures with and without MCC, respectively) in most instances because MS–DRGs 228 and 229 are high in the surgical hierarchy GROUPER logic of MDC 05 (Diseases and Disorders of the Circulatory System). Since patients can have multiple procedures reported with a principal diagnosis during a particular hospital stay, and a patient can be assigned to only one MS–DRG, the surgical hierarchy GROUPER logic provides a hierarchical order of surgical classes from the most resource-intensive to the least resource-intensive. Patients with multiple procedures are generally assigned to the MS–DRG that correlates to the most resource-intensive surgical class.

Our clinical advisors reviewed this grouping issue and noted in open concomitant surgical ablation procedures, the CABG, MVR, and/or AVR components of the procedure are more technically complex than the open surgical ablation procedure. Our clinical advisors stated that in open concomitant surgical ablation procedures, the MS–DRG assigned should be based on the most resource-intensive procedure performed. Therefore, we believe this request would be better addressed by proposing to revise the surgical hierarchy in MDC 05 rather than creating four new MS–DRGs. For FY 2022, we are proposing to revise the surgical hierarchy for the MS–DRGs in MDC 05 to sequence MS–DRGs 231–236 (Coronary Bypass) above MS–DRGs 228 and 229 to enable more appropriate MS–DRG assignment for these types of cases. Under this proposal, if a procedure code describing a CABG and a procedure code describing an open surgical ablation are present, the GROUPER logic would assign the CABG surgical class because a CABG would be sequenced higher in the hierarchy than an open surgical ablation. We refer the reader to section II.D.15. of the preamble of this proposed rule for the discussion of the surgical hierarchy and the complete list of our proposed modifications to the surgical hierarchy in MDC 05.

As mentioned earlier in this section, this request involved two parts. The second part of the request was to reassign cases describing standalone percutaneous endoscopic surgical ablation. According to the requestor, standalone, percutaneous endoscopic surgical ablation is a rapidly growing therapy, indicated for highly symptomatic patients that have already failed medical management and/or percutaneous catheter ablation procedures. The requestor identified nine ICD–10–PCS codes that they stated describe percutaneous endoscopic surgical ablation. These codes and their corresponding MDC and MS–DRG assignments are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>MDC</th>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02540ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of coronary vein, open approach</td>
</tr>
<tr>
<td>02550ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of atrial septum, open approach</td>
</tr>
<tr>
<td>02560ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of right atrium, open approach</td>
</tr>
<tr>
<td>02570ZK</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of left atrial appendage, open approach</td>
</tr>
<tr>
<td>02570ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of left atrium, open approach</td>
</tr>
<tr>
<td>02580ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of conduction mechanism, open approach</td>
</tr>
<tr>
<td>02590ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of chordae tendineae, open approach</td>
</tr>
<tr>
<td>025S0ZZ</td>
<td>04  05</td>
<td>163-165 270-272</td>
<td>Destruction of right pulmonary vein, open approach</td>
</tr>
<tr>
<td>025T0ZZ</td>
<td>04  05</td>
<td>163-165 270-272</td>
<td>Destruction of left pulmonary vein, open approach</td>
</tr>
</tbody>
</table>
The requestor performed its own analysis and stated that it found the most common MS–DRG assignment for cases describing standalone percutaneous endoscopic surgical ablation was MS–DRGs 228 and 229 (Other Cardiothoracic Procedures with and without MCC, respectively) and that in those MS–DRGs, the standalone surgical ablation procedures cost more than all the procedures in their currently assigned MS–DRGs 228 and 229. Therefore, the requestor recommended CMS reassign these procedures to higher weighted MS–DRGs 219 and 220 (Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with MCC and with CC, respectively).

We examined claims data from the March 2020 update of the FY 2019 MedPAR file for all cases in MS–DRGs 228 and 229 and compared the results to cases with a procedure code describing a standalone percutaneous endoscopic surgical ablation procedure. Our findings are shown in the following table.

## MS–DRGs 228 – 229: Cases Reporting Procedures Describing Percutaneous Endoscopic Surgical Ablation

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>ICD-10-PCS codes</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>228</td>
<td>All cases</td>
<td>4,436</td>
<td>10.7</td>
<td>$45,772</td>
</tr>
<tr>
<td></td>
<td>Cases with procedure code for percutaneous endoscopic surgical ablation</td>
<td>99</td>
<td>7.1</td>
<td>$48,281</td>
</tr>
<tr>
<td>229</td>
<td>All Cases</td>
<td>5,250</td>
<td>5.3</td>
<td>$29,454</td>
</tr>
<tr>
<td></td>
<td>Cases with procedure code for percutaneous endoscopic surgical ablation</td>
<td>497</td>
<td>3.7</td>
<td>$35,516</td>
</tr>
</tbody>
</table>

As shown in the table, the data analysis performed indicates that the 99 cases in MS–DRG 228 reporting a procedure code that describes percutaneous endoscopic surgical ablation have an average length of stay that is shorter than the average length of stay for all the cases in MS–DRG 228 (7.1 days versus 10.7 days) and higher average costs when compared to all the cases in MS–DRG 228 ($48,281 versus $45,772). The 497 cases in MS–DRG 229 reporting a procedure code that describes percutaneous endoscopic surgical ablation have an average length of stay that is shorter than the average length of stay for all the cases in MS–DRG 229 (3.7 days versus 5.8 days) and higher average costs when compared to all the cases in MS–DRG 229 ($35,516 versus $29,454).

We then examined the claims data from the March 2020 update of the FY 2019 MedPAR file to identify the average length of stay and average costs for all cases in MS–DRGs 219 and 220. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>MDC</th>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02544ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of coronary vein, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02554ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of atrial septum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02564ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of right atrium, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02574ZZ</td>
<td>05</td>
<td>273-274</td>
<td>Destruction of left atrial appendage, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02574ZK</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of left atrium, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02584ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of conduction mechanism, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>02594ZZ</td>
<td>05</td>
<td>228-229</td>
<td>Destruction of chordae tendineae, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>025S4ZZ</td>
<td>04</td>
<td>163-165</td>
<td>Destruction of right pulmonary vein, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>025T4ZZ</td>
<td>04</td>
<td>163-165</td>
<td>Destruction of left pulmonary vein, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

As shown in the table, the data analysis performed indicates that the 99 cases in MS–DRG 228 reporting a procedure code that describes percutaneous endoscopic surgical ablation have an average length of stay that is shorter than the average length of stay for all the cases in MS–DRG 228 (7.1 days versus 10.7 days) and higher average costs when compared to all the cases in MS–DRG 228 ($48,281 versus $45,772). The 497 cases in MS–DRG 229 reporting a procedure code that describes percutaneous endoscopic surgical ablation have an average length of stay that is shorter than the average length of stay for all the cases in MS–DRG 229 (3.7 days versus 5.8 days) and higher average costs when compared to all the cases in MS–DRG 229 ($35,516 versus $29,454).

We examined claims data from the March 2020 update of the FY 2019 MedPAR file for all cases in MS–DRGs 228 and 229 and compared the results to cases with a procedure code describing a standalone percutaneous endoscopic surgical ablation procedure. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>ICD-10-PCS codes</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>228</td>
<td>All cases</td>
<td>4,436</td>
<td>10.7</td>
<td>$45,772</td>
</tr>
<tr>
<td></td>
<td>Cases with procedure code for percutaneous endoscopic surgical ablation</td>
<td>99</td>
<td>7.1</td>
<td>$48,281</td>
</tr>
<tr>
<td>229</td>
<td>All Cases</td>
<td>5,250</td>
<td>5.3</td>
<td>$29,454</td>
</tr>
<tr>
<td></td>
<td>Cases with procedure code for percutaneous endoscopic surgical ablation</td>
<td>497</td>
<td>3.7</td>
<td>$35,516</td>
</tr>
</tbody>
</table>
As shown in the table, for MS–DRG 219, there were a total of 15,597 cases with an average length of stay of 10.9 days and average costs of $57,845. For MS–DRG 220, there were a total of 15,074 cases with an average length of stay of 6.5 days and average costs of $39,565.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for all cases in MS–DRGs 228 and 229 and compared the results to cases with a procedure code describing a standalone percutaneous endoscopic surgical ablation procedure. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>219</td>
<td>15,597</td>
<td>10.9</td>
<td>$57,845</td>
</tr>
<tr>
<td>220</td>
<td>15,074</td>
<td>6.5</td>
<td>$39,565</td>
</tr>
</tbody>
</table>

Our analysis indicates that MS–DRGs 219 and 220 generally have much higher average costs and longer average lengths of stay than the cases with a procedure code describing percutaneous endoscopic surgical ablation currently assigned to MS–DRGs 228 and 229. Instead, the average costs and average length of stay for cases reporting a standalone percutaneous endoscopic surgical ablation appear to be generally more aligned with the average costs and average length of stay for all cases in MS–DRGs 228 and 229, which are currently assigned. Our clinical advisors reviewed this issue and do not recommend changing the assignment of procedure codes describing percutaneous endoscopic surgical ablation. Therefore, for these reasons, we are proposing to maintain the current structure of MS–DRGs 219 and 220.

f. Drug-Eluting Stents

We received a request to review the MS–DRG assignments of claims involving the insertion of coronary stents in percutaneous coronary interventions. The requestor suggested that CMS eliminate the distinction between drug-eluting and bare-metal coronary stents in the MS–DRG classification. According to the requestor, coated stents have a clinical performance comparable to drug-eluting stents however they are grouped with bare-metal stents because they do not contain a drug. The requestor asserted that this comingling muddies the

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>219</td>
<td>11,863</td>
<td>10.9</td>
<td>$61,934</td>
</tr>
<tr>
<td>220</td>
<td>10,072</td>
<td>6.5</td>
<td>$41,800</td>
</tr>
</tbody>
</table>

As shown in the table, the data analysis performed indicates that the 84 cases in MS–DRG 228 reporting a procedure code that describes percutaneous endoscopic surgical ablation have an average length of stay that is shorter than the average length of stay for all the cases in MS–DRG 228 (6.9 days versus 10.2 days) and lower average costs when compared to all the cases in MS–DRG 228 ($44,710 versus $46,508). The 393 cases in MS–DRG 229 reporting a procedure code that describes percutaneous endoscopic surgical ablation have an average length of stay that is shorter than the average length of stay for all the cases in MS–DRG 229 (3.4 days versus 4.9 days) and higher average costs when compared to all the cases in MS–DRG 229 ($34,237 versus $29,885).

We then examined the claims data from the September 2020 update of the FY 2020 MedPAR file to identify the average length of stay and average costs for all cases in MS–DRGs 219 and 220. Our findings are shown in the table.
clinical coherence of the MS–DRG structure, as one cannot infer distinctions in clinical performance or benefits among the groups and potentially creates a barrier (based on hospital decision-making) to patient access to modern coated stents. The requestor listed the following MS–DRGs in its request.

- MS–DRG 246 (Percutaneous Cardiovascular Procedures with Drug-Eluting Stent with MCC or 4+ Arteries or Stents);
- MS–DRG 247 (Percutaneous Cardiovascular Procedures with Drug-Eluting Stent without MCC);
- MS–DRG 248 (Percutaneous Cardiovascular Procedures with Non-Drug-Eluting Stent with MCC or 4+ Arteries or Stents); and
- MS–DRG 249 (Percutaneous Cardiovascular Procedures with Non-Drug-Eluting Stent without MCC).

According to the requestor, the non-drug-eluting stent MS–DRGs have outlived their usefulness in the stent market. The requestor performed its own analysis of MedPAR data from FY 2015 through FY 2019 and stated that it found the volume of cases describing non-drug-eluting coronary stents has declined since 2015, culminating in FY 2019, with drug-eluting stents accounting for 96.1% of all stent cases within the Medicare program, while non-drug-eluting stents accounted for only 3.9% that year. The requestor asserted that the assignment of coated stents to the non-drug-eluting stent category creates a market distortion as this newer technology is being comingled with very old technology at a payment disadvantage large enough to influence hospitals’ willingness to prescribe, while at the same time acknowledging that the separation in average charges and costs between the non-drug-eluting stent category and the drug-eluting stent category is minimal in their analysis of the claims data.

Based on a review of the procedure codes that are currently assigned to MS–DRGs 246, 247, 248 and 249, our clinical advisors agree that further refinement of these MS–DRGs may be warranted. However, in ICD–10–PCS, a stent is considered an intraluminal device. The distinction between drug-eluting and non-drug eluting intraluminal devices is found elsewhere in the ICD–10–PCS procedure code classification and evaluating this request requires a more extensive analysis to assess potential impacts across the MS–DRGs. For these reasons, at this time, our clinical advisors recommend that rather than evaluating the procedure codes assigned to MS–DRGs 246, 247, 248 and 249 in isolation, additional analysis should be performed for this subset of procedure codes across the MS–DRGs, as part of the comprehensive procedure code review described in section II.D.11, of the preamble of this proposed rule. Therefore, we believe it would be more appropriate to consider this request further during our comprehensive procedure code review in future rulemaking.

6. MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue)

a. Knee Joint Procedures

We received a request to examine the procedure code combinations for procedures describing a right knee joint removal and replacement and procedures describing a left knee joint removal and replacement in MS–DRGs 466, 467, and 468 (Revision of Hip or Knee Replacement with MCC, with CC, and without CC/MCC, respectively). According to the requestor, when using the MS–DRG GROUPER software version 37, the left knee joint procedure combinations group correctly to MS–DRG 468, while the exact same right knee procedure code combinations group incorrectly to MS–DRG 465 (Wound Debridement and Skin Graft Except Hand for Musculoskeletal and Connective Tissue Disorders without CC/MCC).

The requestor provided the following procedure codes that describe the procedure code combinations for the left knee joint removal and replacement procedures currently assigned to MS–DRGs 466, 467, and 468.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
<th>with</th>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0SPD4JC</td>
<td>Removal of synthetic substitute from left knee joint, patellar surface, percutaneous endoscopic approach</td>
<td>with</td>
<td>0SRW0JZ</td>
<td>Replacement of left knee joint, tibial surface with synthetic substitute, open approach</td>
</tr>
<tr>
<td>0SPU4JZ</td>
<td>Removal of synthetic substitute from left knee joint, femoral surface, percutaneous endoscopic approach</td>
<td>with</td>
<td>0SRW0JZ</td>
<td>Replacement of left knee joint, tibial surface with synthetic substitute, open approach</td>
</tr>
<tr>
<td>0SPW4JZ</td>
<td>Removal of synthetic substitute from left knee joint, tibial surface, percutaneous endoscopic approach</td>
<td>with</td>
<td>0SRW0JZ</td>
<td>Replacement of left knee joint, tibial surface with synthetic substitute, open approach</td>
</tr>
</tbody>
</table>

The requestor also provided the following procedure code combinations for right knee joint removal and replacement procedures for CMS’s review and consideration.
We reviewed the procedure code combinations listed and agree with the requestor that the procedure codes that describe the procedure code combinations for right knee joint removal and replacement procedures were inadvertently excluded from the logic for MS–DRGs 466, 467, and 468. During our review of the previously listed procedure code combinations describing removal and replacement of the right and left knee joints, we identified additional MS–DRGs in which the listed procedure code combinations for the left knee joint are in the logic, however, the listed procedure code combinations for the right knee joint that were inadvertently excluded from the logic. Specifically, the listed procedure code combinations describing removal and replacement of the left knee joint are also included in the logic for case assignment to MS–DRGs 461 and 462 (Bilateral or Multiple Major Joint Procedures of Lower Extremity with and without MCC, respectively) in MDC 08 and MS–DRGs 628, 629, and 630 (Other Endocrine, Nutritional and Metabolic O.R. Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 10 (Endocrine, Nutritional and Metabolic Diseases and Disorders). Our clinical advisors stated that the procedure code combinations describing removal and replacement of the right knee joint should be added to MS–DRGs 461, 462, 466, 467, and 468 in MDC 08 and MS–DRGs 628, 629, and 630 in MDC 10 for consistency with the procedure code combinations describing removal and replacement of the left knee joint that are currently assigned to those MS–DRGs. Adding these procedure codes will improve clinical coherence and ensure more appropriate MS–DRG assignment for these cases.

Therefore, for FY 2022, we are proposing to add the three procedure code combinations listed previously describing removal and replacement of the right knee joint that were inadvertently omitted from the logic to MS–DRGs 461, 462, 466, 467, and 468 in MDC 08 and MS–DRGs 628, 629, and 630 in MDC 10.

b. Pelvic Trauma With Internal Fixation

We received a request to reassign cases reporting a diagnosis code describing a pelvic fracture in combination with a procedure code describing repair of a pelvic fracture with internal fixation, from the lower (NonCC) severity level MS–DRG of its current base MS–DRG assignment to the higher (MCC) severity level MS–DRG of its current base MS–DRG assignment. According to the requestor, there has been steady growth in the volume of internal fixation procedures performed for pelvic fractures since 2008. The requestor stated that due to this growth rate and the anticipated increase in utilization of these internal fixation devices in these procedures in the future that CMS should reconsider the payment structure for these cases it referred to as “internal fixation for pelvic trauma”.

The requestor provided data for the Healthcare Common Procedural Coding System (HCPCS) code G0413 (Percutaneous skeletal fixation of posterior pelvic bone fracture and/or dislocation, for fracture patterns which disrupt the pelvic ring, unilateral or bilateral, (includes ileum, sacroiliac joint and/or sacrum) and current procedural terminology (CPT) code 22848 (Pelvic fixation (attachment of caudal end of instrumentation to pelvic bony structures) other than sacrum) from 2008 through 2018 that it crosswalked to ICD–10–PCS procedure codes. The requestor stated that this CPT coded data indicated that physicians have used pelvic fracture fixation, and pelvic instrumentation, for an increasing number of trauma/fracture repair cases, demonstrating expanded use of these devices in the pelvic area overall.

The requestor reported that sacral fractures are often underdiagnosed and once the diagnosis is made, bedrest is common, although prolonged bedrest is not recommended for the elderly. In addition, the requestor stated that pelvic fractures may be isolated or they may be associated with surrounding structures. For example, the requestor reported that the sacroiliac joint is involved in approximately 30 to 35% of pelvic fracture cases. According to the requestor, the standard of care has also transitioned, from bedrest-only to surgery, and current medical practice has evolved to lower the threshold for fracture repair surgery. For instance, the requestor stated that smaller 5mm
fractures that were once left untreated now have standard treatment protocols involving the use of pelvic instrumentation. As a result, the requestor asserted that there will be greater utilization of internal fixation devices to treat these smaller pelvic fractures. The requestor provided the following procedure codes that it stated describe procedures involving the use of internal fixation devices for pelvic fracture repair.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0QS204Z</td>
<td>Reposition right pelvic bone with internal fixation device, open approach</td>
</tr>
<tr>
<td>0QS234Z</td>
<td>Reposition right pelvic bone with internal fixation device, percutaneous approach</td>
</tr>
<tr>
<td>0QS304Z</td>
<td>Reposition left pelvic bone with internal fixation device, open approach</td>
</tr>
<tr>
<td>0QS334Z</td>
<td>Reposition left pelvic bone with internal fixation device, percutaneous approach</td>
</tr>
<tr>
<td>0SG704Z</td>
<td>Fusion of right sacroiliac joint with internal fixation device, open approach</td>
</tr>
<tr>
<td>0SG734Z</td>
<td>Fusion of right sacroiliac joint with internal fixation device, percutaneous approach</td>
</tr>
<tr>
<td>0SG804Z</td>
<td>Fusion of left sacroiliac joint with internal fixation device, open approach</td>
</tr>
<tr>
<td>0SG834Z</td>
<td>Fusion of left sacroiliac joint with internal fixation device, percutaneous approach</td>
</tr>
</tbody>
</table>

The requestor also provided the following diagnosis code subcategories that it stated identify diagnoses describing pelvic fracture.

<table>
<thead>
<tr>
<th>ICD-10-CM Subcategory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S32.1 -</td>
<td>Fracture of sacrum</td>
</tr>
<tr>
<td>S32.2 -</td>
<td>Fracture of coccyx</td>
</tr>
<tr>
<td>S32.3 -</td>
<td>Fracture of ilium</td>
</tr>
</tbody>
</table>

The requestor performed its own analysis of claims data and reported findings for cases reporting a combination of the diagnosis codes found in the listed diagnosis code subcategories and the listed procedure codes (internal fixation for pelvic trauma) for MS–DRGs 515, 516, and 517 (Other Musculoskeletal System and Connective Tissue O.R. Procedures with MCC, with CC, and without CC/MCC, respectively); MS–DRGs 907, 908, and 909 (Other O.R. Procedures for Injuries with MCC, with CC, and without CC/MCC, respectively); and MS–DRGs 957, 958, and 959 (Other O.R. Procedures for Multiple Significant Trauma with MCC, with CC, and without CC/MCC, respectively). According to the requestor, its findings support reassignment of these internal fixation procedures for pelvic trauma cases from the lower severity level MS–DRG 517 to the higher severity level MS–DRG 515, from the lower severity level MS–DRG 909 to the higher severity level 907, and from the lower severity level MS–DRG 959 to the higher severity level 957. The requestor suggested that approximately 2,000 cases would be impacted by its recommendation to reassign internal fixation for pelvic trauma cases. The requestor also stated that these internal fixation for pelvic trauma cases currently result in a high rate of CMS outlier payments to institutions that perform a high volume of these procedures. Finally, the requestor stated that there is precedent for reassignment of cases from the lower severity level MS–DRGs to the higher severity level MS–DRG for cases involving the use of a device in orthopedic surgery. The requestor provided the examples of total ankle replacement procedures, spinal disc replacement procedures and neurostimulator implantation procedures to demonstrate how CMS has previously reassigned cases from the lower severity level MS–DRG to the higher severity level MS–DRG.

We first examined the claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for all cases in MS–DRGs 515, 516, and 517; MS–DRGs 907, 908, and 909; and MS–DRGs 957, 958, and 959. Our findings are shown in the following tables.
We then examined claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for cases reporting any combination of the diagnosis and procedure codes that the requestor provided to identify internal fixation for pelvic trauma cases in MS–DRGs 515, 516, and 517; MS–DRGs 907, 908, and 909; and MS–DRGs 957, 958, and 959.

We note that our analysis identified two types of cases in which the combination of a diagnosis code and a procedure code (that the requestor provided to identify internal fixation for pelvic trauma) was reported. The first type of case consisted of a diagnosis code describing a pelvic fracture reported in combination with a single procedure code describing repair of a pelvic fracture with internal fixation on a claim, and the second type of case consisted of a diagnosis code describing a pelvic fracture reported in combination with two procedure codes describing repair of a pelvic fracture with internal fixation (for example, one for the right side and one for the left side) on a claim. These cases are described as single and bilateral internal fixation procedures for pelvic trauma, respectively. We refer the reader to Tables 6P.1h and 6P.1i associated with this proposed rule (which are available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS) for the list of diagnosis and procedure code combinations reflecting bilateral internal fixation for pelvic trauma procedures reported by case ID in each MS–DRG, by fiscal year, along with the detailed claims analysis. For example, Table 6P.1h shows the claims data analysis findings from the March 2020 update of the FY 2019 MedPAR file. Line 2 identifies the section for single cases reported in MS–DRG 515, line 13 identifies the section for single cases reported in MS–DRG 516, and line 42 identifies the single cases reported in MS–DRG 517. The following table summarizes the information found in each column of the tables.

### March 2020 Update of the FY 2019 MedPAR File

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>515 – All cases</td>
<td>4,831</td>
<td>8.2</td>
<td>$22,403</td>
</tr>
<tr>
<td>516 – All cases</td>
<td>14,089</td>
<td>4.6</td>
<td>$14,310</td>
</tr>
<tr>
<td>517 – All cases</td>
<td>12,675</td>
<td>2.6</td>
<td>$10,316</td>
</tr>
<tr>
<td>907 – All cases</td>
<td>10,342</td>
<td>9.6</td>
<td>$28,037</td>
</tr>
<tr>
<td>908 – All cases</td>
<td>9,129</td>
<td>5.2</td>
<td>$14,681</td>
</tr>
<tr>
<td>909 – All cases</td>
<td>2,994</td>
<td>2.9</td>
<td>$10,078</td>
</tr>
<tr>
<td>957 – All cases</td>
<td>2,325</td>
<td>13.1</td>
<td>$54,500</td>
</tr>
<tr>
<td>958 – All cases</td>
<td>1,845</td>
<td>8.2</td>
<td>$30,973</td>
</tr>
<tr>
<td>959 – All cases</td>
<td>130</td>
<td>5.1</td>
<td>$20,204</td>
</tr>
</tbody>
</table>

### September 2020 Update of the FY 2020 MedPAR File

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>515 – All cases</td>
<td>3,691</td>
<td>8.0</td>
<td>$23,094</td>
</tr>
<tr>
<td>516 – All cases</td>
<td>10,582</td>
<td>4.6</td>
<td>$15,308</td>
</tr>
<tr>
<td>517 – All cases</td>
<td>8,203</td>
<td>2.6</td>
<td>$11,301</td>
</tr>
<tr>
<td>907 – All cases</td>
<td>8,706</td>
<td>9.2</td>
<td>$28,127</td>
</tr>
<tr>
<td>908 – All cases</td>
<td>7,434</td>
<td>5.1</td>
<td>$15,222</td>
</tr>
<tr>
<td>909 – All cases</td>
<td>2,080</td>
<td>2.8</td>
<td>$10,650</td>
</tr>
<tr>
<td>957 – All cases</td>
<td>2,028</td>
<td>12.9</td>
<td>$56,366</td>
</tr>
<tr>
<td>958 – All cases</td>
<td>1,500</td>
<td>7.9</td>
<td>$32,638</td>
</tr>
<tr>
<td>959 – All cases</td>
<td>126</td>
<td>4.7</td>
<td>$18,423</td>
</tr>
</tbody>
</table>
As shown in Table 6P.1h, line 4, column A, displays the Case ID “Single-A” for the first case; column B displays MS-DRG 515; column C displays the diagnosis code S32.111A; column D displays the description of the diagnosis code (Minimally displaced Zone 1 fracture of sacrum, initial encounter for closed fracture); column E displays the procedure code 0QS234Z; column F displays the description of the procedure code (Reposition right pelvic bone with internal fixation device, percutaneous approach); column G displays the case count 1; column H displays an average length of stay of 3.0 days; column I displays average costs of $8,433 for the case; column J displays the frequency of the procedure reported was one (1) occurrence; column K displays a 3.0 day length of stay for the case; and column L displays $8,433 for the cost of the case.

In our analysis of the claims data from the March 2020 update of the FY 2019 MedPAR file, we found that there were no cases reporting any combination of the diagnosis codes and procedure codes previously listed in MS-DRGs 907, 908, and 909 or MS-DRGs 957, 958, and 959. Our findings are shown in the following table for any cases found to report a diagnosis code describing a pelvic trauma in combination with a procedure code describing single internal fixation in MS-DRGs 515, 516, and 517.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>515 – All cases</td>
<td>4,831</td>
<td>8.2</td>
<td>$22,403</td>
</tr>
<tr>
<td>515 – Cases with single internal fixation for pelvic trauma</td>
<td>6</td>
<td>5.67</td>
<td>$28,368</td>
</tr>
<tr>
<td>516 – All cases</td>
<td>14,089</td>
<td>4.6</td>
<td>$14,310</td>
</tr>
<tr>
<td>516 – Cases with single internal fixation for pelvic trauma</td>
<td>20</td>
<td>5.8</td>
<td>$12,879</td>
</tr>
<tr>
<td>517 – All cases</td>
<td>12,675</td>
<td>2.6</td>
<td>$10,316</td>
</tr>
<tr>
<td>517 – Cases with single internal fixation for pelvic trauma</td>
<td>3</td>
<td>5.33</td>
<td>$12,147</td>
</tr>
</tbody>
</table>
As shown in the table, there were only three cases found in MS–DRG 517 reporting single internal fixation for pelvic trauma procedures, with an average length of stay of 5.33 days and average costs of $12,147. The average length of stay is longer and the average costs of these three cases higher compared to the average length of stay and the average costs for all cases in MS–DRG 517 (5.33 days versus 2.6 days and $12,147 versus $10,316, respectively); however, overall, we believe the data findings are comparable. Our clinical advisors did not support reassignment of the three cases from MS–DRG 517 to MS–DRG 515 based on the claims data analysis and also stated it would not be appropriate to reassign these cases into the higher severity level MS–DRG in the absence of a MCC and noted that the cases would not be clinically coherent with regard to resource utilization.

In our analysis of the claims data from the March 2020 update of the FY 2019 MedPAR file for cases in which a bilateral internal fixation for pelvic trauma procedure was performed, we identified one case in MS–DRG 517. As shown in Table 6P.1j, the average length of stay for this case was 4.0 days and the average costs were $24,258, which is longer than the average length of stay and greater than the average costs for all cases in MS–DRG 517 (2.6 days and $10,316, respectively). We also identified cases reporting various code combinations for MS–DRGs 515 and 516, and provide the details in Table 6P.1j associated with this proposed rule (which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS).

In our analysis of the claims data from the September 2020 update of the FY 2020 MedPAR file we found that there were no cases reporting any combination of the diagnosis codes and procedure codes previously listed in MS–DRG 909 or in MS–DRGs 957, 958, and 959. Our findings are shown in the following table for any cases found to report a diagnosis code describing a pelvic trauma in combination with a procedure code describing single internal fixation in MS–DRGs 515, 516, 517, 907, and 908.

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Number of cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>515– All cases</td>
<td>3,691</td>
<td>8.0</td>
<td>$23,094</td>
</tr>
<tr>
<td>515– Cases with single internal fixation for pelvic trauma</td>
<td>6</td>
<td>8.3</td>
<td>$17,356</td>
</tr>
<tr>
<td>516– All cases</td>
<td>10,582</td>
<td>4.6</td>
<td>$15,308</td>
</tr>
<tr>
<td>516– Cases with single internal fixation for pelvic trauma</td>
<td>20</td>
<td>4.35</td>
<td>$14,163</td>
</tr>
<tr>
<td>517– All cases</td>
<td>8,203</td>
<td>2.6</td>
<td>$11,301</td>
</tr>
<tr>
<td>517– Cases with single internal fixation for pelvic trauma</td>
<td>4</td>
<td>2.5</td>
<td>$10,136</td>
</tr>
<tr>
<td>907– All cases</td>
<td>8,706</td>
<td>9.2</td>
<td>$28,127</td>
</tr>
<tr>
<td>907– Cases with single internal fixation for pelvic trauma</td>
<td>1</td>
<td>25.0</td>
<td>$97,152</td>
</tr>
<tr>
<td>908– All cases</td>
<td>7,434</td>
<td>5.1</td>
<td>$15,222</td>
</tr>
<tr>
<td>908– Cases with single internal fixation for pelvic trauma</td>
<td>1</td>
<td>6.0</td>
<td>$19,741</td>
</tr>
</tbody>
</table>

As shown in the table, there were only four cases found in MS–DRG 517 reporting single internal fixation for pelvic trauma procedures, with an average length of stay of 2.5 days and average costs of $10,136. For the same reasons described previously based on the FY 2019 analysis, our clinical advisors did not support reassignment of the cases in the lower severity level MS–DRG 517 to the higher severity level MS–DRG 515. In addition, the average length of stay and average costs for these four cases reporting single internal fixation for pelvic trauma procedures are less than the average length of stay and average costs for all the cases in MS–DRG 517 (2.5 days versus 2.6 days and $10,136 versus $11,301, respectively); however, overall, we believe the data findings are comparable.

In our analysis of the claims data from the September 2020 update of the FY 2020 MedPAR file for cases in which a bilateral internal fixation for pelvic trauma procedure was performed, we identified one case in MS–DRG 517. As shown in Table 6P.1k, the average length of stay for this case was 2.0 days and the average costs were $10,103, which is shorter than the average length of stay and less than the average costs for all cases in MS–DRG 517 (2.6 days and $10,316, respectively). We also identified cases reporting various combinations for MS–DRGs 515, 516 and 907, and provide the details in Table 6P.1k associated with this proposed rule (which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS).

We believe further analyses of these internal fixation for pelvic trauma cases in the claims data is warranted. We note that our analysis for both the single and bilateral cases was centered on the reporting of a principal diagnosis code describing a pelvic trauma (fracture) in combination with a procedure code describing internal fixation based on the codes provided by the requestor. However, we also identified cases in the claims data in which a pelvic trauma diagnosis code was reported as a secondary diagnosis code in combination with a procedure code describing internal fixation and believe these cases require further evaluation. In addition, during our review of the diagnosis and procedure codes that the requestor provided, we identified diagnosis codes that we believe do not warrant consideration for purposes of this request and additional procedure codes that describe internal fixation for pelvic trauma procedures, which we believe do warrant further analysis. For example, as previously noted, the requestor provided the subcategories for
We refer the reader to Table 6P.1g for the list of diagnosis codes that are included in the diagnosis subcategories provided by the requestor and the list of procedure codes provided by the requestor, which also contains the procedure codes we identified. The requestor stated Medicare payments related to CRRT. The requestor acknowledged that under the current MS–DRG definitions, Medicare cases with beneficiaries receiving CRRT are assigned to more than 300 MS–DRGs. Although these beneficiaries are clinically similar in that they are critically ill patients who experience AKI requiring more intensive and continuous treatment than other dialysis modalities, the principal diagnoses for their inpatient stays vary.

The requestor acknowledged that the following two new MS–DRGs be created:
- Suggested New MS–DRG XXX—Continuous Renal Replacement Therapy with CC/MCC; and
- Suggested New MS–DRG XXX—Continuous Renal Replacement Therapy without CC/MCC.

Renal replacement therapy (RRT) replaces kidney function by exchanging solute and removing fluid from the blood as a means to prevent or treat renal failure in patients with acute kidney injury (AKI). Modalities of renal support include CRRT, conventional intermittent hemodialysis (IHD), and prolonged intermittent renal replacement therapies (PIRRTs), which are a hybrid of CRRT and IHD. IHD provides solute clearance and filtration during relatively brief treatment sessions, generally lasting from three to five hours. CRRT provides gradual fluid removal and solute clearance over prolonged treatment times, typically over a 24-hour period, mimicking the natural function of the kidney to allow for the continuous removal or replacement of fluid. The most common CRRT modalities are continuous venovenous hemofiltration, continuous venovenous hemodialysis, and continuous venovenous hemodiafiltration.

According to the requestor, CRRT is used primarily to treat critically ill, hospitalized patients who experience AKI requiring more intensive and continuous treatment than other dialysis modalities. The requestor stated that CRRT offers fluid balance and convective clearance that may be precisely adjusted for each patient, and has been associated with a higher likelihood of kidney recovery as compared to other modalities of RRT. The requestor asserted that IHD may worsen the neurological status of patients with acute brain injury or other causes of increased intracranial pressure by compromising their cerebral perfusion by raising intracranial pressure. The ongoing modulation of fluid balance and targeted fluid management capabilities of CRRT enables its use in situations other than renal failure. According to the requestor, CRRT, a slow continuous therapy, is preferred for patients who are hemodynamically unstable because it helps prevent the hemodynamic fluctuations common with the more rapid IHD. In light of the COVID–19 pandemic, the requestor noted the National Institutes of Health’s Coronavirus Disease 2019 (COVID–19) Treatment Guidelines and The American Society of Nephrology recommend CRRT as the preferred renal replacement therapy for critically ill, COVID–19 patients experiencing AKI, who develop indications for renal replacement therapy, due to the hemodynamic instability often experienced in this condition.

The following ICD–10–PCS procedure code identifies the performance of CRRT.

7. MDC 11 (Diseases and Disorders of the Kidney and Urinary Tract): Chronic Renal Replacement Therapy (CRRT)

We received a request to create new MS–DRGs for cases where the patient receives continuous renal replacement therapy (CRRT) during the inpatient stay. According to the requestor, hospitals incur higher costs related to CRRT and current MS–DRG definitions do not adequately account for the clinical and resource requirements of CRRT. The requestor stated Medicare reimbursement is insufficient to cover the costs of administering CRRT, creating a disincentive in offering this dialysis modality and is a barrier to further adoption of CRRT. The requestor
In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure code 5A1D90Z is currently recognized as a non-O.R. procedure that affects the MS–DRG to which it is assigned. Our clinical advisors agree that the principal diagnosis assigned for inpatient admissions where continuous renal replacement of therapy is utilized can vary. To examine the impact of the use of CRRT, we examined claims data from the March 2020 update of the FY 2019 MedPAR file for the top ten MS–DRGs reporting the use of CRRT. Our findings are reflected in the following table:

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5A1D90Z</td>
<td>Performance of urinary filtration, continuous, greater than 18 hours per day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Top 10 MS-DRGs Reporting Continuous Renal Replacement Therapy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MS-DRG</strong></td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>871</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>870</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>853</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>003</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>291</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>004</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>207</td>
</tr>
</tbody>
</table>
As shown in this table, our data findings demonstrate the average lengths of stay were longer and the average costs were higher for the cases reporting the use of CRRT when compared to all cases in their respective MS–DRG. We note that the claims data demonstrate that the MS–DRG with the largest number of cases reporting CRRT is MS–DRG 871 with 2,912 cases. Of the top 10 MS–DRGs reporting CRRT, the MS–DRG with the smallest number of cases is MS–DRG 682 with 401 cases. The average length of stay of this subset of cases ranges from a high of 35.5 days in MS–DRG 004 to a low of 7.9 days in MS–DRG 871 for cases reporting the use of CRRT. The average costs of this subset of cases ranges from a high of $174,085 in MS–DRG 003 to a low of $27,681 in MS–DRG 871 for cases reporting the use of CRRT.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for the top ten MS–DRGs reporting the use of CRRT. Our similar findings are reflected in the following table:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>219</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with MCC</td>
<td>All cases</td>
<td>15,597</td>
<td>$57,845</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>442</td>
<td>17.1</td>
<td>$98,802</td>
</tr>
<tr>
<td>270</td>
<td>Other Major Cardiovascular Procedures with MCC</td>
<td>All cases</td>
<td>18,959</td>
<td>$37,249</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>430</td>
<td>14.8</td>
<td>$70,030</td>
</tr>
<tr>
<td>682</td>
<td>Renal Failure with MCC</td>
<td>All cases</td>
<td>103,511</td>
<td>$10,486</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>401</td>
<td>9.8</td>
<td>$29,089</td>
</tr>
</tbody>
</table>
As shown in this table, our data findings show that the average lengths of stay were longer and the average costs were higher for the cases reporting the use of CRRT when compared to all cases in their respective MS–DRG. We note that the claims data demonstrate that the MS–DRG with the largest number of cases reporting CRRT is MS–DRG 871 with 3,023 cases. Of the top 10 MS–DRGs reporting CRRT, the MS–DRG with the smallest number of cases is MS–DRG 219 with 374 cases. The average length of stay of this subset of cases ranges from a high of 34.9 days in MS–DRG 004 to a low of 7.9 days in MS–DRG 871 for cases reporting the use of CRRT. The average costs of this subset of cases ranges from a high of $182,952 in MS–DRG 004 to a low of $29,248 in MS–DRG 871 for cases reporting the use of CRRT.

While the results of the claims analysis indicate that the average costs and average lengths of stay for cases reporting the use of CRRT are higher compared to the average costs for all cases in their assigned MS–DRG, we are unable to ascertain from the claims data the resource use specifically attributable to CRRT during a hospital stay. There is large variability in the differences in average costs from MS–DRG to MS–DRG, indicating there may have been other factors contributing to the higher costs. When reviewing consumption of hospital resources for this subset of cases, the claims data clearly demonstrate the patients typically have a major complication or co-morbid (MCC) condition reported based on the MS–DRGs assigned. The claims data also reflects, based on the top ten MS–DRGs, that the procedure frequently occurs in cases with other procedures with higher than average resource use such as mechanical ventilation, tracheostomy, extracorporeal membrane oxygenation (ECMO) and other major cardiovascular procedures that also may be contributing to the higher average costs for these cases.

To further examine the variability in cases reporting the use of CRRT, we also reviewed the claims data to identify the number (frequency) and types of principal diagnoses that were reported to determine what factors may also be contributing to the higher average costs for these cases.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis without MV &gt;96 Hours with MCC</td>
<td>All cases</td>
<td>6.4</td>
<td>$14,140</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>3,023</td>
<td>7.9</td>
<td>$29,248</td>
</tr>
<tr>
<td>870</td>
<td>Septicemia Or Severe Sepsis with MV &gt;96 Hours</td>
<td>All cases</td>
<td>15.2</td>
<td>$48,909</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>2,480</td>
<td>16.7</td>
<td>$66,120</td>
</tr>
<tr>
<td>853</td>
<td>Infectious and Parasitic Diseases with O.R. Procedures with MCC</td>
<td>All cases</td>
<td>12.3</td>
<td>$35,594</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>1,464</td>
<td>17.1</td>
<td>$71,270</td>
</tr>
<tr>
<td>003</td>
<td>ECMO or Tracheostomy with MV &gt;96 hours or Principal Diagnosis Except Face,</td>
<td>All cases</td>
<td>30.9</td>
<td>$137,021</td>
</tr>
<tr>
<td></td>
<td>Mouth and Neck with Major O.R. Procedures</td>
<td>1,158</td>
<td>34</td>
<td>$182,952</td>
</tr>
<tr>
<td>207</td>
<td>Respiratory System Diagnosis with Ventilator Support &gt;96 Hours</td>
<td>All cases</td>
<td>15.8</td>
<td>$47,379</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>976</td>
<td>18.7</td>
<td>$68,254</td>
</tr>
<tr>
<td>04</td>
<td>Tracheostomy with MV &gt;96 hours or Principal Diagnosis Except Face, Mouth</td>
<td>All cases</td>
<td>26.4</td>
<td>$88,922</td>
</tr>
<tr>
<td></td>
<td>and Neck without Major O.R. Procedures</td>
<td>1,248</td>
<td>34.9</td>
<td>$134,323</td>
</tr>
<tr>
<td>291</td>
<td>Heart Failure and Shock with MCC</td>
<td>All cases</td>
<td>5.1</td>
<td>$10,055</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>594</td>
<td>10.7</td>
<td>$33,604</td>
</tr>
<tr>
<td>208</td>
<td>Respiratory System Diagnosis with Ventilator Support &lt;=96 Hours</td>
<td>All cases</td>
<td>6.9</td>
<td>$19,519</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>496</td>
<td>8.6</td>
<td>$31,853</td>
</tr>
<tr>
<td>270</td>
<td>Other Major Cardiovascular Procedures with MCC</td>
<td>All cases</td>
<td>9.3</td>
<td>$39,520</td>
</tr>
<tr>
<td></td>
<td>Cases with CRRT</td>
<td>416</td>
<td>14.3</td>
<td>$68,957</td>
</tr>
<tr>
<td>219</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedures without</td>
<td>All cases</td>
<td>10.9</td>
<td>$61,934</td>
</tr>
<tr>
<td></td>
<td>Cardiac Catheterization with MCC</td>
<td>374</td>
<td>18.7</td>
<td>$108,744</td>
</tr>
</tbody>
</table>

The top 10 MS-DRGs reporting Continuous Renal Replacement Therapy.
Our findings for the top 10 principal diagnoses that were reported within the claims data from the March 2020 update of the FY 2019 MedPAR file for this subset of cases is shown in the following table:

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
<th>Number of Times Reported</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A41.9</td>
<td>Sepsis, unspecified organism</td>
<td>4,226</td>
<td>12.6</td>
<td>$48,150</td>
</tr>
<tr>
<td>I21.4</td>
<td>Non-ST elevation (NSTEMI) myocardial infarction</td>
<td>691</td>
<td>16.5</td>
<td>$85,557</td>
</tr>
<tr>
<td>I13.0</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease</td>
<td>652</td>
<td>20</td>
<td>$81,401</td>
</tr>
<tr>
<td>I13.2</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease</td>
<td>551</td>
<td>17.6</td>
<td>$60,493</td>
</tr>
<tr>
<td>A41.51</td>
<td>Sepsis due to Escherichia coli [E. coli]</td>
<td>459</td>
<td>14.7</td>
<td>$54,643</td>
</tr>
<tr>
<td>J96.01</td>
<td>Acute respiratory failure with hypoxia</td>
<td>346</td>
<td>13.2</td>
<td>$50,227</td>
</tr>
<tr>
<td>N17.9</td>
<td>Acute kidney failure, unspecified</td>
<td>319</td>
<td>13.8</td>
<td>$40,908</td>
</tr>
<tr>
<td>N17.0</td>
<td>Acute kidney failure with tubular necrosis</td>
<td>307</td>
<td>14.3</td>
<td>$41,196</td>
</tr>
<tr>
<td>A41.59</td>
<td>Other Gram-negative sepsis</td>
<td>273</td>
<td>17.4</td>
<td>$67,917</td>
</tr>
<tr>
<td>A41.01</td>
<td>Sepsis due to Methicillin susceptible Staphylococcus aureus</td>
<td>271</td>
<td>17.1</td>
<td>$62,664</td>
</tr>
</tbody>
</table>

The claims data in this table reflects a wide variance with regard to the frequency and types of principal diagnoses that were reported along with the procedure code describing the use of CRRT. We note that the claims data demonstrate that the diagnosis with the largest number of cases reporting CRRT is A41.9 (Sepsis, unspecified organism) with 4,226 cases. Of the top 10 principal diagnoses reporting CRRT, the diagnosis with the smallest number of cases is A41.01 (Sepsis due to Methicillin susceptible Staphylococcus aureus) with 271 cases. The average length of stay of this subset of cases ranges from a high of 20 days with a diagnosis of I13.0 (Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease) to a low of 12.6 days with a diagnosis of A41.9 (Sepsis, unspecified organism) for cases reporting the use of CRRT. The average costs of this subset of cases ranges from a high of $85,557 with a diagnosis of I21.4 (Non-ST elevation (NSTEMI) myocardial infarction) to a low of $40,908 with a diagnosis of N17.9 (Acute kidney failure, unspecified) for cases reporting the use of CRRT.

Our findings for the top 10 principal diagnoses that were reported within the claims data from the September 2020 update of the FY 2020 MedPAR file for this subset of cases is shown in the following table:
The claims data in this table also reflects a wide variance with regard to the frequency and types of principal diagnoses that were reported along with the procedure code describing the use of CRRT. As shown, the claims data demonstrate that the diagnosis with the largest number of cases reporting CRRT is A41.9 (Sepsis, unspecified organism) with 4,128 cases. Of the top 10 principal diagnoses reporting CRRT, the diagnosis with the smallest number of cases is N17.0 (Acute kidney failure with tubular necrosis) with 270 cases. The average length of stay of this subset of cases ranges from a high of 21.4 days with a diagnosis of U07.1 (COVID–19) to a low of 11.8 days with a diagnosis of J96.01 (Acute respiratory failure with hypoxia) for cases reporting the use of CRRT. The average costs of this subset of cases ranges from a high of $86,717 with a diagnosis of I21.4 (Non-ST elevation (NSTEMI) myocardial infarction) to a low of $48,882 with a diagnosis of J96.01 (Acute respiratory failure with hypoxia) for cases reporting the use of CRRT.

To evaluate the frequency with which the use of CRRT is reported for different clinical scenarios, we examined claims from the March 2020 update of the FY 2019 MedPAR file across each of the 25 MDCs to determine the number of cases reporting the use of CRRT. Our findings are shown in this table.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
<th>Number of Times Reported</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A41.9</td>
<td>Sepsis, unspecified organism</td>
<td>4,128</td>
<td>12.5</td>
<td>$51,228</td>
</tr>
<tr>
<td>A41.89</td>
<td>Other specified sepsis</td>
<td>1,302</td>
<td>18.8</td>
<td>$76,519</td>
</tr>
<tr>
<td>U07.1</td>
<td>COVID-19</td>
<td>868</td>
<td>21.4</td>
<td>$79,721</td>
</tr>
<tr>
<td>I21.4</td>
<td>Non-ST elevation (NSTEMI) myocardial infarction</td>
<td>650</td>
<td>16.6</td>
<td>$86,717</td>
</tr>
<tr>
<td>I13.0</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease</td>
<td>618</td>
<td>19</td>
<td>$77,404</td>
</tr>
<tr>
<td>I13.2</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease</td>
<td>532</td>
<td>16.3</td>
<td>$59,959</td>
</tr>
<tr>
<td>A41.51</td>
<td>Sepsis due to Escherichia coli [E. coli]</td>
<td>437</td>
<td>15.6</td>
<td>$58,858</td>
</tr>
<tr>
<td>J96.01</td>
<td>Acute respiratory failure with hypoxia</td>
<td>340</td>
<td>11.8</td>
<td>$48,882</td>
</tr>
<tr>
<td>A41.59</td>
<td>Other Gram-negative sepsis</td>
<td>295</td>
<td>16.5</td>
<td>$65,951</td>
</tr>
<tr>
<td>N17.0</td>
<td>Acute kidney failure with tubular necrosis</td>
<td>270</td>
<td>16.2</td>
<td>$49,577</td>
</tr>
</tbody>
</table>
### Continuous Renal Replacement Therapy Across All MDCs

<table>
<thead>
<tr>
<th>MDC</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>All cases with CRRT</td>
<td>19,608</td>
<td>16.5</td>
<td>$68,592</td>
</tr>
<tr>
<td>MDC 01 (Diseases and Disorders of the Nervous System) -- Cases with CRRT</td>
<td>558</td>
<td>17.5</td>
<td>$64,523</td>
</tr>
<tr>
<td>MDC 02 (Disease and Disorders of the Eye) -- Cases with CRRT</td>
<td>5</td>
<td>15.4</td>
<td>$36,053</td>
</tr>
<tr>
<td>MDC 03 (Diseases and Disorders of the Ear, Nose, Mouth and Throat) -- Cases with CRRT</td>
<td>23</td>
<td>17.4</td>
<td>$65,221</td>
</tr>
<tr>
<td>MDC 04 (Diseases and Disorders of the Respiratory System) -- Cases with CRRT</td>
<td>1,370</td>
<td>17.8</td>
<td>$72,158</td>
</tr>
<tr>
<td>MDC 05 (Diseases and Disorders of the Circulatory System) -- Cases with CRRT</td>
<td>6,027</td>
<td>17.9</td>
<td>$86,024</td>
</tr>
<tr>
<td>MDC 06 (Diseases and Disorders of the Digestive System) -- Cases with CRRT</td>
<td>987</td>
<td>18.8</td>
<td>$73,408</td>
</tr>
<tr>
<td>MDC 07 (Diseases and Disorders of the Hepatobiliary System and Pancreas) -- Cases with CRRT</td>
<td>870</td>
<td>20.9</td>
<td>$87,272</td>
</tr>
<tr>
<td>MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue) -- Cases with CRRT</td>
<td>412</td>
<td>18.2</td>
<td>$69,621</td>
</tr>
<tr>
<td>MDC 09 (Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast) -- Cases with CRRT</td>
<td>72</td>
<td>14.5</td>
<td>$43,633</td>
</tr>
<tr>
<td>MDC 10 (Endocrine, Nutritional and Metabolic Diseases and Disorders) -- Cases with CRRT</td>
<td>383</td>
<td>11.8</td>
<td>$41,559</td>
</tr>
<tr>
<td>MDC 11 (Diseases and Disorders of the Kidney and Urinary Tract) -- Cases with CRRT</td>
<td>1,134</td>
<td>15.4</td>
<td>$48,276</td>
</tr>
<tr>
<td>MDC 12 (Diseases and Disorders of the Male Reproductive System) -- Cases with CRRT</td>
<td>9</td>
<td>17.3</td>
<td>$55,931</td>
</tr>
</tbody>
</table>
## Continuous Renal Replacement Therapy Across All MDCs

<table>
<thead>
<tr>
<th>MDC</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC 13 (Diseases and Disorders of the Female Reproductive System)--Cases with CRRT</td>
<td>15</td>
<td>47.3</td>
<td>$131,252</td>
</tr>
<tr>
<td>MDC 14 (Pregnancy, Childbirth and the Puerperium)--Cases with CRRT</td>
<td>3</td>
<td>8</td>
<td>$22,852</td>
</tr>
<tr>
<td>MDC 16 (Diseases and Disorders of Blood, Blood Forming Organs, Immunologic Disorders)--Cases with CRRT</td>
<td>134</td>
<td>21.8</td>
<td>$78,138</td>
</tr>
<tr>
<td>MDC 17 (Myeloproliferative Diseases and Disorders, Poorly Differentiated Neoplasms)--Cases with CRRT</td>
<td>260</td>
<td>25.8</td>
<td>$95,309</td>
</tr>
<tr>
<td>MDC 18 (Infectious and Parasitic Diseases, Systemic or Unspecified Sites)--Cases with CRRT</td>
<td>6,761</td>
<td>14.1</td>
<td>$54,051</td>
</tr>
<tr>
<td>MDC 19 (Mental Diseases and Disorders)--Cases with CRRT</td>
<td>5</td>
<td>13.8</td>
<td>$30,664</td>
</tr>
<tr>
<td>MDC 20 (Alcohol/Drug Use and Alcohol/Drug Induced Organic Mental Disorders)--Cases with CRRT</td>
<td>5</td>
<td>15.4</td>
<td>$39,332</td>
</tr>
<tr>
<td>MDC 21 (Injuries, Poisonings and Toxic Effects of Drugs)--Cases with CRRT</td>
<td>390</td>
<td>16.3</td>
<td>$61,846</td>
</tr>
<tr>
<td>MDC 22 (Burns)--Cases with CRRT</td>
<td>27</td>
<td>19</td>
<td>$104,749</td>
</tr>
<tr>
<td>MDC 23 (Factors Influencing Health Status and Other Contacts with Health Services)--Cases with CRRT</td>
<td>13</td>
<td>15.6</td>
<td>$36,295</td>
</tr>
<tr>
<td>MDC 24 (Multiple Significant Trauma)--Cases with CRRT</td>
<td>86</td>
<td>10.2</td>
<td>$59,113</td>
</tr>
<tr>
<td>MDC 25 (Human Immunodeficiency Virus Infections)--Cases with CRRT</td>
<td>59</td>
<td>15.6</td>
<td>$50,581</td>
</tr>
</tbody>
</table>

As shown in the table, the top five MDCs with the largest number of cases reporting CRRT were MDC 18, with 6,761 cases; MDC 05, with 6,027 cases; MDC 04, with 1,370 cases; MDC 11, with 1,134 cases; and MDC 06, with 987 cases. The top five MDCs with the highest average costs for cases reporting the use of CRRT were MDC 13, with average costs of $131,252; MDC 22, with average costs of $104,749; MDC 17, with average costs of $95,309; MDC 07, with average costs of $87,272; and MDC 05, with average costs of $86,024. The claims data indicate that the average length of stay ranges from a high of 47.3 days in MDC 13 to a low of 8 days in MDC 14 for cases reporting the use of CRRT across each of the 25 MDCs.

We also examined claims from the September 2020 update of the FY 2020 MedPAR file across each of the 25 MDCs to determine the number of cases...
reporting the use of CRRT. Our findings are shown in this table.

<table>
<thead>
<tr>
<th>Continuous Renal Replacement Therapy Across All MDCs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MDC</strong></td>
</tr>
<tr>
<td>All cases with CRRT</td>
</tr>
<tr>
<td>MDC 01 (Diseases and Disorders of the Nervous System)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 02 (Disease and Disorders of the Eye)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 03 (Diseases and Disorders of the Ear, Nose, Mouth and Throat)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 04 (Diseases and Disorders of the Respiratory System)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 05 (Diseases and Disorders of the Circulatory System)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 06 (Diseases and Disorders of the Digestive System)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 07 (Diseases and Disorders of the Hepatobiliary System and Pancreas)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue)--Cases with CRRT</td>
</tr>
<tr>
<td>MDC 09 (Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast)--Cases with CRRT</td>
</tr>
</tbody>
</table>
As shown in the table, the top five MDCs with the largest number of cases reporting CRRT are MDC 18, with 7,678 cases; MDC 05, with 5,516 cases; MDC...
the severity of illness of the patient and other circumstances of the admission.

In summary, the claims data reflect a wide variance with regard to the frequency and average costs for cases reporting the use of CRRT. Depending on the number of cases in each MS–DRG, it is difficult to detect patterns of complexity and resource intensity. We believe the creation of new MS–DRGs for cases with procedure codes reporting the use of CRRT has the potential for creating instability in the relative weights and disrupting the integrity of the MS–DRG system. Therefore, we are not proposing to create new MS–DRGs for cases reporting the use of continuous renal replacement therapy.

8. MDC 16 (Diseases and Disorders of Blood, Blood Forming Organs and Immunologic Disorders)

a. ANDEXXA® (Coagulation Factor Xa (Recombinant), Inactivated-zhzo)

ANDEXXA® (coagulation factor Xa (recombinant), inactivated-zhzo) is a recombinant decoy protein that rapidly reverses the anticoagulant effects of two direct oral anticoagulants, apixaban and rivaroxaban, when reversal of anticoagulation is needed due to life-threatening or uncontrolled bleeding in indications such as intracranial hemorrhages (ICHs) and gastrointestinal bleeds (GIBs). ANDEXXA® received FDA approval on May 3, 2018. When administered as a bolus followed by continuous infusion, ANDEXXA® blocks the anticoagulants ability to inhibit Fxa. ANDEXXA® was approved for new technology add on payments in FY 2019 (83 FR 41362). We refer readers to section II.H.4.i. of the preamble of the FY 2019 IPPS/LTCH PPS final rule (83 FR 41355 through 41362), and section II.H.4.k. of the preamble of the FY 2020 IPPS/LTCH PPS final rule (84 FR 42193 through 42194) for a complete discussion of the new technology add on payment application and payment amount for ANDEXXA® for FY 2019 and FY 2020.

In section II.H.4.i. of the preamble of the FY 2021 IPPS/LTCH PPS final rule (85 FR 58614 through 58615), we noted the 3-year anniversary date of the entry of ANDEXXA® onto the U.S. market (May 3, 2021) will occur in the second half of FY 2021. We stated in general, we extend new technology add-on payments for an additional year only if the 3-year anniversary date of the product’s entry onto the U.S. market occurs in the latter half of the upcoming fiscal year. After consideration of the public comments received, we finalized our proposal to continue new technology add-on payments for this technology for FY 2021.

We received a request from the manufacturer to review potential access issues in the inpatient setting for this drug in the future. The requestor acknowledged that CMS approved the new technology add-on payment for ANDEXXA® beginning in FY 2019 and noted that FY 2021 will be the last year before the add-on payments expire. According to the requestor, ANDEXXA® is the only indicated factor Xa inhibitor reversal agent, and the requestor stated a concern for the future of access to ANDEXXA® for patients experiencing uncontrolled bleeds caused by factor Xa inhibitors. The requestor stated their claims modeling showed a significant drop in hospital payment for cases involving use of ANDEXXA® following the expiration of new technology add-on payments. Specifically, after new technology add-on payments expire, the requestor stated their model projects that approximately 59% of cases are likely to be paid less than the wholesale acquisition costs for ANDEXXA®.

The following ICD–10–PCS procedure codes identify the intravenous administration of ANDEXXA®.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XW03372</td>
<td>Introduction of inactivated coagulation factor Xa into peripheral vein, percutaneous approach, new technology group 2</td>
</tr>
<tr>
<td>XW04372</td>
<td>Introduction of inactivated coagulation factor Xa into central vein, percutaneous approach, new technology group 2</td>
</tr>
</tbody>
</table>

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes XW03372 and XW04372 are designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors agree that the principal diagnosis assigned for inpatient admissions where the intravenous administration of ANDEXXA® is indicated can vary.

To evaluate the frequency with which the intravenous administration of
ANDEXXA® is reported for different clinical scenarios, we examined claims data from the March 2020 update of the FY 2019 MedPAR file across the Pre-MDC category, each of the 25 MDCs and the surgical class referred to as “unrelated operating room procedures” to determine the number of cases reporting the use of ANDEXXA®. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>Cases Reporting ANDEXXA® Therapy</th>
<th>MDC</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>All cases reporting XW03372 or XW04372</td>
<td>461</td>
<td>8.7</td>
<td>$42,734</td>
<td></td>
</tr>
<tr>
<td>Pre-MDC--Cases reporting XW03372 or XW04372</td>
<td>16</td>
<td>19.9</td>
<td>$107,741</td>
<td></td>
</tr>
<tr>
<td>MDC 01 (Diseases and Disorders of the Nervous System)--Cases reporting XW03372 or XW04372</td>
<td>250</td>
<td>7.2</td>
<td>$37,035</td>
<td></td>
</tr>
<tr>
<td>MDC 03 (Diseases and Disorders of the Ear, Nose, Mouth and Throat)--Cases reporting XW03372 or XW04372</td>
<td>2</td>
<td>4</td>
<td>$26,463</td>
<td></td>
</tr>
<tr>
<td>MDC 04 (Diseases and Disorders of the Respiratory System)--Cases reporting XW03372 or XW04372</td>
<td>12</td>
<td>5.3</td>
<td>$36,198</td>
<td></td>
</tr>
<tr>
<td>MDC 05 (Diseases and Disorders of the Circulatory System)--Cases reporting XW03372 or XW04372</td>
<td>33</td>
<td>16.8</td>
<td>$77,284</td>
<td></td>
</tr>
<tr>
<td>MDC 06 (Diseases and Disorders of the Digestive System)--Cases reporting XW03372 or XW04372</td>
<td>53</td>
<td>7.4</td>
<td>$34,485</td>
<td></td>
</tr>
<tr>
<td>MDC 07 (Diseases and Disorders of the Hepatobiliary System and Pancreas)--Cases reporting XW03372 or XW04372</td>
<td>2</td>
<td>5</td>
<td>$27,206</td>
<td></td>
</tr>
<tr>
<td>MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue)--Cases reporting XW03372 or XW04372</td>
<td>14</td>
<td>7.9</td>
<td>$41,082</td>
<td></td>
</tr>
<tr>
<td>MDC 09 (Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast)--Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>4</td>
<td>$22,242</td>
<td></td>
</tr>
<tr>
<td>MDC 11 (Diseases and Disorders of the Kidney and Urinary Tract)--Cases reporting XW03372 or XW04372</td>
<td>10</td>
<td>7.5</td>
<td>$32,751</td>
<td></td>
</tr>
</tbody>
</table>
As shown in the table, there were 461 cases reporting the intravenous administration of ANDEXXA® with procedure codes XW03372 or XW04372. The top five MDCs with the largest number of cases reporting ANDEXXA® are MDC 01, with 250 cases; MDC 06 with 53 cases; MDC 05, with 33 cases; MDC 18, with 25 cases; and the Pre-MDC category, with 16 cases. The claims data indicate that the average costs range from a high of $107,741 in the Pre-MDC category to a low of $22,242 in MDC 09 for cases reporting the use of ANDEXXA® across the claims data. The claims data also indicates that the average length of stay ranges from a high of 19.9 days in the Pre-MDC category to a low of 4 days in MDC 09 for cases reporting the use of ANDEXXA®.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file across the Pre-MDC category, each of the 25 MDCs and the surgical class referred to as “unrelated operating room procedures” to determine the number of cases reporting the use of ANDEXXA®. Our findings are shown in the following table.

<table>
<thead>
<tr>
<th>Cases Reporting ANDEXXA® Therapy</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC 12 (Diseases and Disorders of the Male Reproductive System)--Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>14</td>
<td>$25,975</td>
</tr>
<tr>
<td>MDC 16 (Diseases and Disorders of Blood, Blood Forming Organs, Immunologic Disorders)--Cases reporting XW03372 or XW04372</td>
<td>10</td>
<td>7.4</td>
<td>$40,563</td>
</tr>
<tr>
<td>MDC 17 (Myeloproliferative Diseases and Disorders, Poorly Differentiated Neoplasms)--Cases reporting XW03372 or XW04372</td>
<td>3</td>
<td>11.7</td>
<td>$36,541</td>
</tr>
<tr>
<td>MDC 18 (Infectious and Parasitic Diseases, Systemic or Unspecified Sites)--Cases reporting XW03372 or XW04372</td>
<td>25</td>
<td>11.5</td>
<td>$43,355</td>
</tr>
<tr>
<td>MDC 21 (Injuries, Poisonings and Toxic Effects of Drugs)--Cases reporting XW03372 or XW04372</td>
<td>13</td>
<td>6.4</td>
<td>$38,250</td>
</tr>
<tr>
<td>MDC 24 (Multiple Significant Trauma)--Cases reporting XW03372 or XW04372</td>
<td>10</td>
<td>10.8</td>
<td>$48,410</td>
</tr>
<tr>
<td>MS-DRG 981 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC)--Cases reporting XW03372 or XW04372</td>
<td>5</td>
<td>9</td>
<td>$53,775</td>
</tr>
<tr>
<td>MS-DRG 987 (Non-Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC)--Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>12</td>
<td>$31,378</td>
</tr>
<tr>
<td>MDC</td>
<td>Number of Cases</td>
<td>Average Length of Stay</td>
<td>Average Costs</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>----------------</td>
<td>------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>All cases reporting XW03372 or XW04372</td>
<td>719</td>
<td>8.3</td>
<td>$44,393</td>
</tr>
<tr>
<td>Pre-MDC--Cases reporting XW03372 or XW04372</td>
<td>28</td>
<td>25</td>
<td>$123,750</td>
</tr>
<tr>
<td>MDC 01 (Diseases and Disorders of the Nervous System)--Cases reporting XW03372 or XW04372</td>
<td>364</td>
<td>7.1</td>
<td>$38,841</td>
</tr>
<tr>
<td>MDC 04 (Diseases and Disorders of the Respiratory System)--Cases reporting XW03372 or XW04372</td>
<td>13</td>
<td>4.5</td>
<td>$35,988</td>
</tr>
<tr>
<td>MDC 05 (Diseases and Disorders of the Circulatory System)--Cases reporting XW03372 or XW04372</td>
<td>50</td>
<td>9.4</td>
<td>$58,583</td>
</tr>
<tr>
<td>MDC 06 (Diseases and Disorders of the Digestive System)--Cases reporting XW03372 or XW04372</td>
<td>98</td>
<td>7.8</td>
<td>$39,890</td>
</tr>
<tr>
<td>MDC 07 (Diseases and Disorders of the Hepatobiliary System and Pancreas)--Cases reporting XW03372 or XW04372</td>
<td>5</td>
<td>9.2</td>
<td>$31,730</td>
</tr>
<tr>
<td>MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue)--Cases reporting XW03372 or XW04372</td>
<td>15</td>
<td>7.4</td>
<td>$45,397</td>
</tr>
<tr>
<td>MDC 09 (Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast)--Cases reporting XW03372 or XW04372</td>
<td>9</td>
<td>4.8</td>
<td>$27,922</td>
</tr>
<tr>
<td>MDC 10 (Endocrine, Nutritional and Metabolic Diseases and Disorders)--Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>8</td>
<td>$33,210</td>
</tr>
</tbody>
</table>
### Cases Reporting ANDEXXA® Therapy

<table>
<thead>
<tr>
<th>MDC</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC 11 (Diseases and Disorders of the Kidney and Urinary Tract) -- Cases reporting XW03372 or XW04372</td>
<td>9</td>
<td>8.7</td>
<td>$36,565</td>
</tr>
<tr>
<td>MDC 12 (Diseases and Disorders of the Male Reproductive System) -- Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>8</td>
<td>$30,119</td>
</tr>
<tr>
<td>MDC 16 (Diseases and Disorders of Blood, Blood Forming Organs, Immunologic Disorders) -- Cases reporting XW03372 or XW04372</td>
<td>22</td>
<td>5.7</td>
<td>$28,458</td>
</tr>
<tr>
<td>MDC 17 (Myeloproliferative Diseases and Disorders, Poorly Differentiated Neoplasms) -- Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>5</td>
<td>$34,819</td>
</tr>
<tr>
<td>MDC 18 (Infectious and Parasitic Diseases, Systemic or Unspecified Sites) -- Cases reporting XW03372 or XW04372</td>
<td>52</td>
<td>9.7</td>
<td>$50,963</td>
</tr>
<tr>
<td>MDC 19 (Mental Diseases and Disorders) -- Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>15</td>
<td>$37,667</td>
</tr>
<tr>
<td>MDC 21 (Injuries, Poisonings and Toxic Effects of Drugs) -- Cases reporting XW03372 or XW04372</td>
<td>9</td>
<td>4.2</td>
<td>$27,987</td>
</tr>
<tr>
<td>MDC 23 (Factors Influencing Health Status and Other Contacts with Health Services) -- Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>7</td>
<td>$28,405</td>
</tr>
<tr>
<td>MDC 24 (Multiple Significant Trauma) -- Cases reporting XW03372 or XW04372</td>
<td>30</td>
<td>8.4</td>
<td>$41,478</td>
</tr>
<tr>
<td>MS-DRG 981 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC) -- Cases reporting XW03372 or XW04372</td>
<td>9</td>
<td>11.6</td>
<td>$57,895</td>
</tr>
<tr>
<td>MS-DRG 987 (Non-Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC) -- Cases reporting XW03372 or XW04372</td>
<td>1</td>
<td>5</td>
<td>$34,910</td>
</tr>
</tbody>
</table>

As shown in the table, there were 719 cases reporting the intravenous administration of ANDEXXA® with procedure codes XW03372 or XW04372. The top five MDCs with the largest number of cases reporting ANDEXXA® are MDC 01, with 364 cases; MDC 06, with 98 cases; MDC 18, with 52 cases; MDC 05, with 50 cases; and MDC 24, with 30 cases. The claims data indicate that the average costs range from a high...
of $123,750 in the Pre-MDC category to a low of $27,922 in MDC 09 for cases reporting the use of ANDEXXA® across the claims data. The claims data also indicates that the average length of stay ranges from a high of 25 days in the Pre-MDC category to a low of 4.2 days in MDC 21 for cases reporting the use of ANDEXXA® across the claims data.

To further examine the impact of the intravenous administration of ANDEXXA®, we examined claims data from the March 2020 update of the FY 2019 MedPAR file for the top ten MS-DRGs reporting procedure codes XW03372 or XW04372. Our findings are reflected in the following table:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>064</td>
<td>Intracranial Hemorrhage or Cerebral Infarction with MCC</td>
<td>77,911</td>
<td>6.1</td>
<td>$13,441</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>78</td>
<td>6.9</td>
<td>$30,187</td>
</tr>
<tr>
<td>023</td>
<td>Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator</td>
<td>12,867</td>
<td>9.8</td>
<td>$40,511</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>27</td>
<td>11</td>
<td>$53,956</td>
</tr>
<tr>
<td>086</td>
<td>Traumatic Stupor and Coma &lt;1 Hour with CC</td>
<td>16,035</td>
<td>3.9</td>
<td>$9,214</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>25</td>
<td>4.2</td>
<td>$28,603</td>
</tr>
<tr>
<td>377</td>
<td>Gastrointestinal Hemorrhage with MCC</td>
<td>68,798</td>
<td>5.7</td>
<td>$12,897</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>18</td>
<td>8.6</td>
<td>$35,850</td>
</tr>
<tr>
<td>025</td>
<td>Craniotomy and Endovascular Intracranial Procedures with MCC</td>
<td>21,980</td>
<td>8.8</td>
<td>$31,726</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>17</td>
<td>9</td>
<td>$55,458</td>
</tr>
<tr>
<td>083</td>
<td>All cases</td>
<td>10,061</td>
<td>4.3</td>
<td>$9,895</td>
</tr>
</tbody>
</table>
As shown in this table, the claims data demonstrate that the MS–DRG with the largest number of cases reporting ANDEXXA® is MS–DRG 064 with 78 cases. Of the top 10 MS–DRGs reporting ANDEXXA®, the MS–DRG with the smallest number of cases is MS–DRG 003 with 13 cases. The average length of stay of this subset of cases ranges from a high of 21.5 days in MS–DRG 003 to a low of 4.2 days in MS–DRG 086 for cases reporting the use of ANDEXXA®. The average costs of this subset of cases ranges from a high of $117,265 in MS–DRG 003 to a low of $26,992 in MS–DRG 083 for cases reporting the use of ANDEXXA®. We note while our data findings demonstrate the average costs were higher for the cases reporting the intravenous administration of ANDEXXA® when compared to all cases in their respective MS–DRG, these cases represent a very small percentage of the total number of cases reported in these MS–DRGs. We also note that the top 10 MS–DRGs identified only account for 239 of the 461 cases in total that were identified in the March 2020 update of the FY 2019 MedPAR file reporting ICD–10–PCS codes XW03372 or XW04372. The remainder of the cases are distributed in small numbers across the MS–DRGs.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for the top ten MS–DRGs reporting procedure codes XW03372 or XW04372. Our findings are reflected in the following table:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>064</td>
<td>Intracranial Hemorrhage or Cerebral Infarction with CC or TPA In 24 Hours</td>
<td>107,737</td>
<td>3.6</td>
<td>$7,375</td>
</tr>
<tr>
<td>082</td>
<td>Traumatic Stupor and Coma &gt;1 Hour with MCC</td>
<td>6,980</td>
<td>6.4</td>
<td>$16,630</td>
</tr>
<tr>
<td>085</td>
<td>Traumatic Stupor and Coma &lt;1 Hour with MCC</td>
<td>8,178</td>
<td>6.5</td>
<td>$16,116</td>
</tr>
<tr>
<td>003</td>
<td>ECMO or Tracheostomy with MV &gt;96 Hours or Principal Diagnosis Except Face Mouth and Neck with Major O.R. Procedures</td>
<td>14,532</td>
<td>30.2</td>
<td>$128,196</td>
</tr>
</tbody>
</table>

As shown in this table, the claims data demonstrate that the MS–DRG with the largest number of cases reporting ANDEXXA® is MS–DRG 064 with 78 cases. Of the top 10 MS–DRGs reporting ANDEXXA®, the MS–DRG with the smallest number of cases is MS–DRG 003 with 13 cases. The average length of stay of this subset of cases ranges from a high of 21.5 days in MS–DRG 003 to a low of 4.2 days in MS–DRG 086 for cases reporting the use of ANDEXXA®. The average costs of this subset of cases ranges from a high of $117,265 in MS–DRG 003 to a low of $26,992 in MS–DRG 083 for cases reporting the use of ANDEXXA®. We note while our data findings demonstrate the average costs were higher for the cases reporting the intravenous administration of ANDEXXA® when compared to all cases in their respective MS–DRG, these cases represent a very small percentage of the total number of cases reported in these MS–DRGs. We also note that the top 10 MS–DRGs identified only account for 239 of the 461 cases in total that were identified in the March 2020 update of the FY 2019 MedPAR file reporting ICD–10–PCS codes XW03372 or XW04372. The remainder of the cases are distributed in small numbers across the MS–DRGs.

We also examined claims data from the September 2020 update of the FY 2020 MedPAR file for the top ten MS–DRGs reporting procedure codes XW03372 or XW04372. Our findings are reflected in the following table:
As shown in this table, the claims data demonstrate that the MS–DRG with the largest number of cases reporting ANDEXXA® is MS–DRG 064 with 111 cases. Of the top 10 MS–DRGs reporting ANDEXXA®, the MS–DRG with the smallest number of cases is MS–DRG 083 with 23 cases. The average length of stay of this subset of cases ranges from a high of 10 days in MS–DRG 023 to a low of 3.5 days in MS–DRG 378 for cases reporting the use of ANDEXXA®. The average costs of this subset of cases ranges from a high of $59,478 in MS–DRG 025 to a low of $24,348 in MS–DRG 378 for cases reporting the use of ANDEXXA®. As with our analysis of the

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>025</td>
<td>Craniotomy and Endovascular Intracranial Procedures with MCC</td>
<td>19,643</td>
<td>8.7</td>
<td>$32,933</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>25</td>
<td>9.3</td>
<td>$59,478</td>
</tr>
<tr>
<td>023</td>
<td>Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator</td>
<td>12,042</td>
<td>9.7</td>
<td>$42,273</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>38</td>
<td>10</td>
<td>$58,749</td>
</tr>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis without MV &gt;96 Hours with MCC</td>
<td>552,641</td>
<td>6.4</td>
<td>$14,140</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>26</td>
<td>9</td>
<td>$46,965</td>
</tr>
<tr>
<td>377</td>
<td>Gastrointestinal Hemorrhage with MCC</td>
<td>60,818</td>
<td>5.6</td>
<td>$13,369</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>36</td>
<td>6.0</td>
<td>$37,949</td>
</tr>
<tr>
<td>085</td>
<td>Traumatic Stupor and Coma &lt;1 Hour with MCC</td>
<td>7,402</td>
<td>6.4</td>
<td>$16,512</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>29</td>
<td>8.4</td>
<td>$36,530</td>
</tr>
<tr>
<td>064</td>
<td>Intracranial Hemorrhage or Cerebral Infarction with MCC</td>
<td>68,674</td>
<td>6</td>
<td>$13,997</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>111</td>
<td>6.8</td>
<td>$34,892</td>
</tr>
<tr>
<td>083</td>
<td>Traumatic Stupor and Coma &gt;1 Hour with CC</td>
<td>9,036</td>
<td>4.2</td>
<td>$10,419</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>23</td>
<td>4.7</td>
<td>$32,678</td>
</tr>
<tr>
<td>065</td>
<td>Intracranial Hemorrhage or Cerebral Infarction with CC or TPA In 24 Hours</td>
<td>86,862</td>
<td>3.5</td>
<td>$7,583</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>32</td>
<td>5.2</td>
<td>$31,535</td>
</tr>
<tr>
<td>086</td>
<td>Traumatic Stupor and Coma &lt;1 Hour with CC</td>
<td>13,298</td>
<td>3.7</td>
<td>$9,592</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>41</td>
<td>4.4</td>
<td>$29,221</td>
</tr>
<tr>
<td>378</td>
<td>Gastrointestinal Hemorrhage with CC</td>
<td>101,534</td>
<td>3.5</td>
<td>$7,577</td>
</tr>
<tr>
<td></td>
<td>Cases reporting XW03372 or XW04372</td>
<td>24</td>
<td>3.5</td>
<td>$24,348</td>
</tr>
</tbody>
</table>
FY 2019 claims data, while these data findings demonstrate the average costs were higher for the cases reporting the intravenous administration of ANDEXXA® when compared to all cases in their respective MS–DRG, these cases represent a very small percentage of the total number of cases reported in these MS–DRGs. We also note that the top 10 MS–DRGs identified only account for 385 of the 719 cases in total that were identified in the September 2020 update of the FY 2020 MedPAR file reporting ICD–10–PCS codes XW03372 or XW04372. The remainder of the cases are distributed in small numbers across the MS–DRGs.

After reviewing the claims data, we believe it is premature to consider a proposal for cases involving ANDEXXA® therapy for FY 2022. While the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file do contain claims reporting the procedure codes identifying the intravenous administration of ANDEXXA®, the number of cases is small across the MDCs and MS–DRGs. The claims data also reflect a wide variance with regard to the frequency and average costs for these cases reporting the use of ANDEXXA®. Moreover, we were unable to identify another MS–DRG that would be a more appropriate MS–DRG assignment for these cases based on the indication for this therapeutic drug. As noted previously, ANDEXXA® reverses the anticoagulant effects of apixaban and rivaroxaban, when reversal of anticoagulation is needed due to life-threatening or uncontrolled bleeding. The underlying cause of the life-threatening or uncontrolled bleeding can vary which means the principal diagnosis assigned for inpatient admissions where ANDEXXA® is administered can vary. The MS–DRGs are a classification system intended to group together diagnoses and procedures with similar clinical characteristics and utilization of resources. We generally seek to identify sufficiently large sets of claims data with a resource/cost similarity and clinical similarity in developing diagnostic-related groups rather than smaller subsets based on the drugs administered. In reviewing this issue, our clinical advisors expressed concern regarding making potential MS–DRG changes based on a specific, single therapeutic agent, identified by unique procedure codes rather than based on a group of related procedure codes that can be reported to describe that same type or class of treatment or technology, which is more consistent with the intent of the MS–DRGs.

We recognize the average costs of the small numbers of cases involving the intravenous administration of ANDEXXA® are greater when compared to the average costs of all cases in their respective MS–DRG. The MS–DRG system is a system of averages and it is expected that within the diagnostic related groups, some cases may demonstrate higher than average costs, while other cases may demonstrate lower than average costs. We further note that section 1886(d)(5)(A) of the Act provides for Medicare payments to Medicare-participating hospitals in addition to the basic prospective payments for cases incurring extraordinarily high costs.

We acknowledge the importance of ensuring that patients diagnosed with an indication for a factor Xa inhibitor reversal agent have adequate access to care and receive the necessary treatment. While we are sensitive to the requestors’ concerns about continued access to treatment for beneficiaries who require the reversal of anticoagulation due to life-threatening or uncontrolled bleeding, additional time is needed to explore options and other mechanisms through which to address low volume high-cost drugs outside of the MS–DRGs.

Furthermore, we note that we are proposing to continue new technology add-on payments for ANDEXXA® for FY 2022. We refer the reader to section II.F.4.b of the preamble of this proposed rule for further discussion regarding our proposal to allow a one-time extension of new technology add-on payments for FY 2022 for 15 technologies for which the new technology add-on payment would otherwise be discontinued, in connection with our proposal to use the FY 2021 data to develop the proposed FY 2022 relative weights.

Therefore for the reasons stated previously, for FY 2022 we are not proposing any MS–DRG changes for cases involving the intravenous administration of ANDEXXA®.

b. Cytokine Release Syndrome (CRS) Logic

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58557 through 58561), we finalized modifications to the proposed severity level designations for a subset of the diagnosis codes describing Cytokine Release Syndrome (CRS) based upon further review of the conditions and in response to public comments. We provided the following table to display the finalized severity level designations and stated that we will continue to monitor the CRS codes and their impact on resource use once the claims data becomes available to determine if further modifications to the severity level are warranted.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
<th>Proposed Severity Level</th>
<th>Finalized Severity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>D89.831</td>
<td>Cytokine release syndrome, grade 1</td>
<td>NonCC</td>
<td>NonCC</td>
</tr>
<tr>
<td>D89.832</td>
<td>Cytokine release syndrome, grade 2</td>
<td>NonCC</td>
<td>NonCC</td>
</tr>
<tr>
<td>D89.833</td>
<td>Cytokine release syndrome, grade 3</td>
<td>NonCC</td>
<td>CC</td>
</tr>
<tr>
<td>D89.834</td>
<td>Cytokine release syndrome, grade 4</td>
<td>NonCC</td>
<td>CC</td>
</tr>
<tr>
<td>D89.835</td>
<td>Cytokine release syndrome, grade 5</td>
<td>NonCC</td>
<td>CC</td>
</tr>
<tr>
<td>D89.839</td>
<td>Cytokine release syndrome, grade unspecified</td>
<td>NonCC</td>
<td>NonCC</td>
</tr>
</tbody>
</table>

In connection with the finalized severity level designations for the listed CRS codes, we also finalized modifications to the ICD–10 MS–DRG GROUPER logic V38 for MS–DRGs 814, 815, and 816 (Reticuloendothelial and Immunity Disorders with MCC, with CC, and without CC/MCC, respectively) to conform to the updates the CDC finalized in the ICD–10–CM Tabular List instructions for assigning and reporting the CRS codes effective with discharges on and after October 1, 2020. The following modifications to the GROUPER logic were finalized effective with discharges on and after October 1, 2020, for case assignment involving CRS following CAR T-cell therapy to MS–
DRGs 814, 815, and 816. We noted that the GROUPER logic for MS–DRGs 814, 815, and 816 will include a principal diagnosis of T89.89XA with a secondary diagnosis of any CRS code as shown in this section of this proposed rule.

**Principal Diagnosis**

T80.89XA Other complications following infusion, transfusion and therapeutic injection, initial encounter with

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T80.82XA</td>
<td>Complication of immune effector cellular therapy, initial encounter</td>
</tr>
<tr>
<td>T80.82XD</td>
<td>Complication of immune effector cellular therapy, subsequent encounter</td>
</tr>
<tr>
<td>T80.82XS</td>
<td>Complication of immune effector cellular therapy, sequela</td>
</tr>
</tbody>
</table>

Also included in Table 6A are the following diagnosis codes that describe immune effector cell-associated neurotoxicity syndrome (ICANS), with varying degrees of severity.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G92.00</td>
<td>Immune effector cell-associated neurotoxicity syndrome, grade unspecified</td>
</tr>
<tr>
<td>G92.01</td>
<td>Immune effector cell-associated neurotoxicity syndrome, grade 1</td>
</tr>
<tr>
<td>G92.02</td>
<td>Immune effector cell-associated neurotoxicity syndrome, grade 2</td>
</tr>
<tr>
<td>G92.03</td>
<td>Immune effector cell-associated neurotoxicity syndrome, grade 3</td>
</tr>
<tr>
<td>G92.04</td>
<td>Immune effector cell-associated neurotoxicity syndrome, grade 4</td>
</tr>
<tr>
<td>G92.05</td>
<td>Immune effector cell-associated neurotoxicity syndrome, grade 5</td>
</tr>
</tbody>
</table>

As discussed in section II.D.13 of the preamble of this proposed rule, Table 6A—New Diagnosis Codes, lists the new diagnosis codes that have been approved to date and will be effective with discharges on and after October 1, 2021. Included in Table 6A are the following codes that describe complication of immune effector cellular therapy identifying the timeframe of the encounter.

Consistent with the Tabular List instruction for these two sets of diagnosis codes as presented and discussed by the CDC at the September 8–9, 2020 ICD–10 Coordination and Maintenance Committee meeting, the diagnosis codes describing a complication of the immune effector cellular therapy (T80.82XA, T80.82XD, and T80.82XS) are to be sequenced first, followed by the applicable diagnosis code to identify the specified condition resulting from the complication. For example, the types of complications that may result from immune effector cellular therapy treatment (for example, CAR T-cell therapy) include ICANS or CRS, as described by the listed diagnosis codes. Accordingly, the CDC included the following instructional note in the Tabular List modifications for code T80.82–:

"Use additional code to identify the specific complication, such as:

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T80.82XA</td>
<td>Complication of immune effector cellular therapy, initial encounter</td>
</tr>
<tr>
<td>T80.82XD</td>
<td>Complication of immune effector cellular therapy, subsequent encounter</td>
</tr>
<tr>
<td>T80.82XS</td>
<td>Complication of immune effector cellular therapy, sequela</td>
</tr>
</tbody>
</table>

As noted previously, the current logic for case assignment involving CRS following CAR T-cell therapy to MS–DRGs 814, 815, and 816 includes a principal diagnosis of T89.89XA with a secondary diagnosis of any CRS code. However, with the finalization of new diagnosis code T80.82–, diagnosis code T89.89XA would no longer be reported and these cases would instead report new diagnosis code T80.82XA, effective with discharges on and after October 1, 2020. As shown in Table 6A associated with this proposed rule, we are proposing to assign diagnosis code T80.82XA to MDC 16 (Diseases and Disorders of Blood, Blood Forming Organs, and Immunologic Disorders) in MS–DRGs 814, 815, and 816. If the MDC and MS–DRG assignment for new diagnosis code T80.82XA is finalized, the current logic for MS–DRGs 814, 815, and 816 that includes a principal diagnosis code of T89.89XA with a secondary diagnosis code of any CRS code would no longer be appropriate or necessary.

Therefore, we are proposing to revise the structure of MS–DRGs 814, 815, and 816 by removing the logic that includes a principal diagnosis of T89.89XA with a secondary diagnosis of any CRS code from MS–DRGs 814, 815, and 816 effective FY 2022.

9. MDC 17 (Myeloproliferative Diseases and Disorders, and Poorly Differentiated Neoplasms): Inferior Vena Cava Filter Procedures

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58517 through 58520), we
discussed the ICD–10–PCS codes that describe the insertion of an intraluminal device into the inferior vena cava that are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06H003T</td>
<td>Insertion of infusion device, via umbilical vein, into inferior vena cava, open approach</td>
</tr>
<tr>
<td>06H003Z</td>
<td>Insertion of infusion device, into inferior vena cava, open approach</td>
</tr>
<tr>
<td>06H00DZ</td>
<td>Insertion of intraluminal device, into inferior vena cava, open approach</td>
</tr>
<tr>
<td>06H033T</td>
<td>Insertion of infusion device, via umbilical vein, into inferior vena cava, percutaneous approach</td>
</tr>
<tr>
<td>06H033Z</td>
<td>Insertion of infusion device, into inferior vena cava, percutaneous approach</td>
</tr>
<tr>
<td>06H03DZ</td>
<td>Insertion of intraluminal device, into inferior vena cava, percutaneous approach</td>
</tr>
<tr>
<td>06H043Z</td>
<td>Insertion of infusion device, into inferior vena cava, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>06H04DZ</td>
<td>Insertion of intraluminal device, into inferior vena cava, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

We finalized a change in the designation of ICD–10–PCS procedure code 06H03DZ from O.R. procedure to non-O.R. procedure and maintained the O.R. designation of procedure codes 06H00DZ and 06H04DZ. In that discussion, we noted our clinical advisors supported changing the O.R. designation of procedures describing insertion of an intraluminal device into the inferior vena cava performed via a percutaneous approach since the procedure does not require the resources of an operating room, while concurring that procedures describing the insertion of an intraluminal device into the inferior vena cava performed via an open or a percutaneous endoscopic approach could require greater resources than a procedure describing insertion of an intraluminal device into the inferior vena cava performed via a percutaneous approach.

We also noted that the goals of changing the designation of procedures from non-O.R. to O.R., or vice versa, are to better clinically represent the resources involved in caring for these patients and to enhance the overall accuracy of the system and not whether the change in designation would impact payment in a particular direction.

In response to this final policy, for this FY 2022 IPPS/LTCH PPS proposed rule, we received a request to revise MS–DRGs 829 and 830 (Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Other Procedures with and without CC/MCC, respectively) by removing the current two-way severity level split and creating a three-way severity level split. The requestor respectfully disagreed with the FY 2021 IPPS/LTCH PPS final rule decision to change the designation of the procedure code describing the insertion of an inferior vena cava intraluminal device via percutaneous approach to a non-O.R. procedure, and stated vena cava filters are most often placed in interventional radiology suites and require a high level of skill to prevent rupture of the vena cava; and although they are long-term devices, they must be placed skillfully to allow for removal if needed.

According to the requestor, it is a conundrum that patients with principal and secondary diagnoses that qualify for medical MS–DRGs 837 (Chemotherapy with Acute Leukemia as Secondary Diagnosis or with High Dose Chemotherapy Agent with MCC), MS–DRG 838 (Chemotherapy with Acute Leukemia as Secondary Diagnosis with CC or High Dose Chemotherapy Agent), and MS–DRG 839 (Chemotherapy with Acute Leukemia as Secondary Diagnosis without CC/MCC group to lower weighted surgical MS–DRGs 829 and 830 (Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Other Procedures with and without CC/MCC, respectively) when a non-major O.R. procedure is performed. The requestor stated the difference in relative weights might be occurring because of the two-way split within MS–DRGs 829 and 830 and the three-way split within MS–DRGs 837, 838 and 839. The requestor theorized that removing the current two-way severity level split of MS–DRGs 829 and 830 and creating a three-way severity level split could help resolve the relative weight discrepancy when any non-major O.R. procedures are performed during hospitalizations for chemotherapy for acute leukemia.

This requestor also suggested that if CMS’ analysis did not support creating a three-way split for MS–DRGs 829 and 830, exclusion of PCS code 06H03DZ from the list of qualifying procedures and reinstatement of O.R. procedure status to appropriately compensate providers for the cost of devices and resources to place inferior vena cava filters across the patient population should be proposed.

To evaluate the request to create a three-way severity split MS–DRG for cases reporting myeloproliferative disorders or poorly differentiated neoplasms with other procedures, we conducted an analysis of base MS–DRG 829. This analysis includes 2 years of MedPAR claims data to compare the data results from 1 year to the next to avoid making determinations about whether additional severity levels are warranted based on an isolated year’s data fluctuation and also, to validate that the established severity levels within a base MS–DRG are supported.

Therefore, we reviewed the claims data for base MS–DRG 829 using the September 2018 update of the FY 2018 MedPAR file and the March 2020 update of the FY 2019 MedPAR file, which were used in our analysis of claims data for MS–DRG reclassification requests for FY 2020 and FY 2022, respectively. Our findings are shown in the table:
We applied the criteria to create subgroups for the three-way severity level split. We found that the criterion that there be at least 500 cases for each subgroup was not met based on the data in both the FY 2019 and FY 2020 MedPAR files, as shown in the table for both years. Specifically, for the “with MCC”, “with CC”, and “without CC/ MCC” split, there were only 333 cases in the “without CC/MCC” subgroup based on the data in the FY 2020 MedPAR file. Accordingly, the claims data do not support a three-way severity level split for base MS–DRG 829.

We also reviewed the claims data for base MS–DRG 829 using the September 2019 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file, which were used in our analysis of claims data for MS–DRG recategorization requests for FY 2021 and FY 2022, respectively. Our findings are shown in the table:

<table>
<thead>
<tr>
<th>FY 2019</th>
<th>Number of Cases</th>
<th>Number of Cases MCC</th>
<th>Number of Cases CC</th>
<th>Number of Cases NonCC</th>
<th>Average Costs No Split</th>
<th>Average Costs MCC</th>
<th>Average Costs CC</th>
<th>Average Costs NonCC</th>
<th>Average Costs MCC/CC combo</th>
<th>Average Costs CC/NonCC combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>2,099</td>
<td>686</td>
<td>1,080</td>
<td>333</td>
<td>$21,657</td>
<td>$35,618</td>
<td>$16,103</td>
<td>$10,909</td>
<td>$23,684</td>
<td>$14,879</td>
</tr>
<tr>
<td>2018</td>
<td>2,116</td>
<td>668</td>
<td>1,115</td>
<td>333</td>
<td>$20,355</td>
<td>$37,693</td>
<td>$15,513</td>
<td>$9,811</td>
<td>$22,324</td>
<td>$14,702</td>
</tr>
</tbody>
</table>

We applied the criteria to create subgroups for the three-way severity level split. We found that the criterion that there be at least 500 cases for each subgroup was not met based on the data in both the FY 2019 and FY 2020 MedPAR files, as shown in the table for both years. Specifically, for the “without MCC”, “with CC”, and “without CC/ MCC” split, there were only 333 cases in the “without CC/MCC” subgroup based on the data in the FY 2019 MedPAR file. Accordingly, the claims data do not support a three-way severity level split for base MS–DRG 829.

We applied the criteria to create subgroups for the three-way severity level split. We found that the criterion that there be at least 500 cases for each subgroup was not met based on the data in both the FY 2019 and FY 2020 MedPAR files, as shown in the table for both years. Specifically, for the “with MCC”, “with CC”, and “without CC/ MCC” split, there were only 333 cases in the “without CC/MCC” subgroup based on the data in the FY 2019 MedPAR file. Accordingly, the claims data do not support a three-way severity level split for base MS–DRG 829.

We annually conduct a review of procedures producing assignment to MS–DRGs 829 and 830, the change in designation from O.R. procedure to non-O.R. procedure is recent, only becoming effective October 1, 2020. Our clinical advisors continue to indicate that code 06H03DZ, describing the percutaneous insertion of an intraluminal device into the inferior vena cava, does not require the resources of an operating room, that the procedure to insert an IVC filter percutaneously is not surgical in nature and that the resources involved in furnishing this procedure are comparable to the related ICD–10–PCS procedure codes that describe the insertion of infusion devices into the inferior vena cava that are currently designated as non-O.R. procedures. Our clinical advisors state our FY 2021 final policy results in an O.R. designation of 06H03DZ that better reflects the associated technical complexity and hospital resource use of this procedure. We continue to explore alternatives on how we may restructure the current O.R. and non-O.R. designations for procedures by leveraging the detail that is now available in the ICD–10 claims data, as discussed in the FY 2021 IPPS/LTCH PPS final rule and in section II.D.11. of the preamble of this proposed rule. We continue to develop our process and methodology, and will provide more detail in future rulemaking.

In summary, based on the results of our analysis, for FY 2022, we are proposing to maintain the current structure of MS–DRGs 829 and 830.

10. Review of Procedure Codes in MS–DRGs 981 Through 983 and 987 Through 989
We annually conduct a review of procedures producing assignment to MS–DRGs 981 through 983 [Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively] and MS–DRGs 987 through 989 [Non-Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively] on the basis of volume, by procedure, to see if it would be appropriate to move cases reporting these procedure codes out of these MS–DRGs into one of the surgical MS–DRGs for the MDC into which the principal diagnosis falls. The data are arrayed in two ways for comparison purposes. We look at a frequency count of each major comparative procedure code. We also compare procedures across MDCs by volume of procedure codes within each MDC. We use this information to determine which procedure codes and diagnosis codes to examine.

We identify those procedures occurring in conjunction with certain principal diagnoses with sufficient frequency to justify adding them to one of the surgical MS–DRGs for the MDC in which the diagnosis falls. We also consider whether it would be more appropriate to move the principal diagnosis codes into the MDC to which the procedure is currently assigned.

In addition to this internal review, we also consider requests that we receive to examine cases found to group to MS–DRGs 981 through 983 or MS–DRGs 987 through 989 to determine if it would be appropriate to add procedure codes to one of the surgical MS DRGs for the MDC into which the principal diagnosis falls or to move the principal diagnosis to the surgical MS DRGs to which the procedure codes are assigned.
Based on the results of our review of the claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file, as well as our review of the requests that we received to examine cases found to group to MS–DRGs 981 through 983 or MS–DRGs 987 through 989, we are proposing to move the cases reporting the procedures and/or principal diagnosis codes described in this section of this rule from MS–DRGs 981 through 983 or MS–DRGs 987 through 989 into one of the surgical MS–DRGs for the MDC into which the principal diagnosis or procedure is assigned.

As discussed in section II.D.3.b. of the preamble of this proposed rule, we received a request to reassign cases with procedures describing control of bleeding in the cranial cavity when reported with a central nervous system diagnosis from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) to MDC 01 (Diseases and Disorders of the Central Nervous System) in MS–DRGs 25, 26, and 27 (Craniotomy and Endovascular Intracranial Procedures with MCC, with CC, and without CC/MCC, respectively (for example, “craniotomy” MS–DRGs). We note that in addition to MS–DRGs 25, 26, and 27, MS–DRG 23 (Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator) and MS–DRG 24 (Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis without MCC) also include procedures performed on structures located within the cranial cavity and are included in the range of MS–DRGs known as the “craniotomy” MS–DRGs in MDC 01.

The management and treatment for bleeding (or hemorrhage) within the cranial cavity varies depending on the location, cause and the severity (or extent) of the bleed. Common causes include head trauma or cerebral aneurysm. Control of bleeding in the cranial cavity procedures are identified by ICD–10–PCS procedure codes 0W310ZZ (Control bleeding in cranial cavity, open approach), 0W313ZZ (Control bleeding in cranial cavity, percutaneous approach) and 0W314ZZ (Control bleeding in cranial cavity, percutaneous endoscopic approach) and are currently assigned to the following MDCs and MS–DRGs.
According to the requestor, procedures performed within the cranial cavity always involve drilling or cutting through the skull regardless of the

<table>
<thead>
<tr>
<th>MDC</th>
<th>Description</th>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Diseases and Disorders of the Ear, Nose, Mouth and Throat</td>
<td>143</td>
<td>Other Ear, Nose, Mouth and Throat O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>144</td>
<td>Other Ear, Nose, Mouth and Throat O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>145</td>
<td>Other Ear, Nose, Mouth and Throat O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td>05</td>
<td>Diseases and Disorders of the Circulatory System</td>
<td>264</td>
<td>Other Circulatory System O.R. Procedures</td>
</tr>
<tr>
<td>10</td>
<td>Endocrine, Nutritional and Metabolic Diseases and Disorders</td>
<td>628</td>
<td>Other Endocrine, Nutritional and Metabolic O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>629</td>
<td>Other Endocrine, Nutritional and Metabolic O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>630</td>
<td>Other Endocrine, Nutritional and Metabolic O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td>17</td>
<td>Myeloproliferative Diseases and Disorders, and Poorly Differentiated Neoplasms</td>
<td>820</td>
<td>Lymphoma and Leukemia with Major O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>821</td>
<td>Lymphoma and Leukemia with Major O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>822</td>
<td>Lymphoma and Leukemia with Major O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>826</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Major O.R. Procedures with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>827</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Major O.R. Procedures with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>828</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms with Major O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td>21</td>
<td>Injuries, Poisonings and Toxic Effects of Drugs</td>
<td>907</td>
<td>Other O.R. Procedures for Injuries with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>908</td>
<td>Other O.R. Procedures for Injuries with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>909</td>
<td>Other O.R. Procedures for Injuries without CC/MCC</td>
</tr>
<tr>
<td>24</td>
<td>Multiple Significant Trauma</td>
<td>957</td>
<td>Other O.R. Procedures for Multiple Significant Trauma with MCC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>958</td>
<td>Other O.R. Procedures for Multiple Significant Trauma with CC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>959</td>
<td>Other O.R. Procedures for Multiple Significant Trauma without CC/MCC</td>
</tr>
</tbody>
</table>
approach, therefore the three procedure codes identified (0W310ZZ, 0W313ZZ, and 0W314ZZ) warrant assignment to the “craniotomy” MS–DRGs.

Our analysis of this grouping issue confirmed that when a procedure describing control of bleeding in the cranial cavity is reported with a principal diagnosis from MDC 01, these cases group to MS–DRGs 981, 982, and 983. Whenever there is a surgical procedure reported on the claim that is unrelated to the MDC to which the case was assigned based on the principal diagnosis, it results in a MS–DRG assignment to a surgical class referred to as “unrelated operating room procedures”.

We examined claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for cases reporting any one of the three procedure codes (0W310ZZ, 0W313ZZ or 0W314ZZ) in MS–DRGs 981 through 983 with a principal diagnosis from MDC 01. Our findings are shown in the following tables.

### MS-DRGs 981-983: Cases Reporting Procedures Describing Control of Bleeding in Cranial Cavity with a Principal Diagnosis from MDC 01 – FY 2019

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>981 - All cases</td>
<td>26,451</td>
<td>11.7</td>
<td>$32,022</td>
</tr>
<tr>
<td>981 - Cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01</td>
<td>8</td>
<td>9.8</td>
<td>$30,843</td>
</tr>
<tr>
<td>982 - All cases</td>
<td>13,853</td>
<td>6.2</td>
<td>$18,176</td>
</tr>
<tr>
<td>982 - Cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01</td>
<td>1</td>
<td>9.0</td>
<td>$51,234</td>
</tr>
<tr>
<td>983 - All cases</td>
<td>2,652</td>
<td>3.0</td>
<td>$12,163</td>
</tr>
<tr>
<td>983 - Cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01</td>
<td>1</td>
<td>4.0</td>
<td>$14,934</td>
</tr>
</tbody>
</table>

### MS-DRGs 981-983: Cases Reporting Procedures Describing Control of Bleeding in Cranial Cavity with a Principal Diagnosis from MDC 01 – FY 2020

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>981 - All cases</td>
<td>22,819</td>
<td>11.5</td>
<td>$33,620</td>
</tr>
<tr>
<td>981 - Cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01</td>
<td>1</td>
<td>18.0</td>
<td>$38,565</td>
</tr>
<tr>
<td>982 - All cases</td>
<td>11,052</td>
<td>6.0</td>
<td>$18,608</td>
</tr>
<tr>
<td>983 - All cases</td>
<td>2,003</td>
<td>2.7</td>
<td>$13,396</td>
</tr>
<tr>
<td>983 - Cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01</td>
<td>1</td>
<td>4.0</td>
<td>$9,152</td>
</tr>
</tbody>
</table>

As noted previously, the requestor asked that we consider reassignment of these cases to the craniotomy MS–DRGs (identified as MS–DRGs 23, 24, 25, 26, and 27). We therefore examined the data for all cases in MS–DRGs 23, 24, 25, 26, and 27. Our findings are shown in the following tables.
As shown, in our analyses of the claims data for MS–DRGs 981 through 983, we found a total of ten cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01 in the March 2020 update of the FY 2019 MedPAR file, and a total of two cases reporting procedures describing control of bleeding in cranial cavity with a principal diagnosis from MDC 01 in the September 2020 update of the FY 2020 MedPAR file.

Our clinical advisors stated these procedures describing control of bleeding in the cranial cavity are consistent with the existing procedure codes included in the logic for case assignment to MS–DRGs 25, 26, and 27, in addition to MS–DRG 23 (Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator) and MS–DRG 24 (Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis without MCC) that also describe procedures performed on structures located within the cranial cavity and are included in the range of MS–DRGs known as the “craniotomy” MS–DRGs. While the claims analysis based on the March 2020 update of the FY 2019 MedPAR file identified only ten cases and the September 2020 update of the FY 2020 MedPAR file identified only two cases for which these procedures were reported as a stand-alone procedure resulting in assignment to MS–DRGs 981 through 983, and the average length of stay and average costs for these cases vary in comparison to the average length of stay and average costs of all cases in MS–DRGs 23, 24, 25, 26, and 27, given the nature of head trauma cases, the resource use would be expected to vary based on the extent of the patient’s injuries. We believe it is clinically appropriate to add these procedure codes describing control of bleeding in the cranial cavity to MS–DRGs 23, 24, 25, 26, and 27 in MDC 01.

Therefore, we are proposing to add procedure codes 0W310ZZ, 0W313ZZ, and 0W314ZZ to MDC 01 in MS–DRGs 23, 24, 25, 26, and 27 in FY 2022.

We also review the list of ICD–10–PCS procedures that, when in combination with their principal diagnosis code, result in assignment to MS–DRGs 981 through 983, or 987 through 989, to ascertain whether any of those procedures should be reassigned from one of those two groups of MS–DRGs to the other group of MS–DRGs based on average costs and the length of stay. We look at the data for trends such as shifts in treatment practice or reporting practice that would make the resulting MS–DRG assignment illogical. If we find these shifts, we would propose to move cases to keep the MS–DRGs clinically similar or to provide payment for the cases in a similar manner.

In addition to this internal review, we also consider requests that we receive to examine cases found to group to MS–DRGs 981 through 983 or MS–DRGs 987 through 989 to determine if it would be appropriate for the cases to be reassigned from one of the MS–DRG groups to the other.

Based on the results of our review of the claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file, as well as our review of the requests that we received to examine cases found to group to MS–DRGs 981 through 983 or MS–DRGs 987 through 989, we are proposing to move the cases reporting the procedures codes described in this section of this rule from MS–DRGs 981 through 983 to MS–DRGs 987 through 989.
As discussed in section II.D.3.a. of the preamble of this proposed rule, we received a request that we understood to be for our consideration of the reassignment of the following three procedure codes from Extensive O.R. procedures to Non-extensive O.R. procedures.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0JB60ZZ</td>
<td>Excision of chest subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0JB70ZZ</td>
<td>Excision of back subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0JB80ZZ</td>
<td>Excision of abdomen subcutaneous tissue and fascia, open approach</td>
</tr>
</tbody>
</table>

In conducting our review of this request, our clinical advisors noted that ICD–10–PCS codes 0JB60ZZ, 0JB70ZZ, and 0JB80ZZ currently group to MS–DRGs 981 through 983 when reported with a principal diagnosis that is not assigned to one of the MDCs to which these procedure codes are assigned. While our claims analysis of both the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file did not identify any cases reporting any one of the three listed procedure codes in MS–DRGs 981, 982, or 983, our clinical advisors believe that these procedures would be more appropriately designated as Non-extensive procedures because they are more consistent with other procedures on the Non-extensive procedure code list. They stated that these procedures do not consume the resources or require a similar level of technical complexity as the procedures on the Extensive O.R. procedures list.

Therefore, we are proposing to reassign the three procedure codes listed from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, without CC/MCC, respectively) to MS–DRGs 987, 988, and 989 (Non-Extensive Procedure Unrelated to Principal Diagnosis with MCC, with CC, without CC/MCC, respectively) for FY 2022.

As discussed in section II.D.4.b. of the preamble of this proposed rule, we identified 17 procedure codes describing laser interstitial thermal therapy (LITT) that are currently designated as extensive O.R. procedures. In addition to those 17 procedure codes, we identified additional procedure codes describing LITT of various body parts that are also designated as extensive O.R. procedures. The ICD–10–PCS codes describing LITT of various body parts are as follows:
Whenever one of these listed procedure codes is reported on a claim that is unrelated to the MDC to which the case was assigned based on the principal diagnosis, it currently results in assignment to MS–DRGs 981, 982, and 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, without CC/MCC, respectively). Our clinical advisors stated that all of the listed procedure codes warrant redesignation from the extensive procedure list and MS–DRGs 981, 982, and 983 to the non-extensive procedure list and to MS–DRGs 987, 988, and 989 (Non-Extensive Procedure Unrelated to Principal Diagnosis with MCC, with CC, without CC/MCC, respectively). Specifically, our clinical advisors stated the procedures described by these codes are minimally invasive and are consistent with other ablation (root operation Destruction) type procedures that are designated as non-extensive procedures in the ICD–10–PCS classification.

In our analysis of claims from the March 2020 update of the FY 2019 MedPAR file, we identified a total of six cases reporting procedure codes describing LITT of various body sites in MS–DRGs 981, 982, and 983 with an average length of stay of 2.5 days and average costs of $7,734. Specifically, we found one case reporting procedure code DVY0KZZ (Laser interstitial thermal therapy of prostate) with an average length of stay of 4.0 days and average costs of $7,348. For MS–DRG 982, we found five cases in which procedure codes describing LITT of various body sites were reported. The first case reported procedure code D0Y0KZZ (Laser interstitial thermal therapy of brain) with an average length of stay of 1.0 day and average costs of $4,142, the second case reported procedure code D0Y6KZZ (Laser interstitial thermal therapy of spinal cord) with an average length of stay of 3.0 days and average costs of $20,007, the third case reported procedure code D0Y1KZZ (Laser interstitial thermal therapy of brain stem) with an average length of stay of 3.0 days and average costs of $3,424, the fourth case reported procedure code D0Y7KZZ (Laser interstitial thermal therapy of rectum) with an average length of stay of 3.0 days and average costs of $3,735, and
the fifth case reported procedure code DVY0KZZ (Laser interstitial thermal therapy of prostate) with an average length of stay of 2.0 days and average costs of $7,750. There were no cases found to report procedures describing LITT in MS–DRG 983. Our findings are summarized in the following table.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Number of Cases</th>
<th>Average Length of Stay</th>
<th>Average Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>981 - All cases</td>
<td>26,451</td>
<td>11.7</td>
<td>$32,022</td>
</tr>
<tr>
<td>981 - Cases reporting procedures describing LITT</td>
<td>1</td>
<td>4.0</td>
<td>$7,348</td>
</tr>
<tr>
<td>982 - All cases</td>
<td>13,853</td>
<td>6.2</td>
<td>$18,176</td>
</tr>
<tr>
<td>982 - Cases reporting procedures describing LITT</td>
<td>5</td>
<td>2.2</td>
<td>$7,812</td>
</tr>
<tr>
<td>983 - All cases</td>
<td>2,652</td>
<td>3.0</td>
<td>$12,163</td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td>2.5</td>
<td>$7,734</td>
</tr>
</tbody>
</table>

In our analysis of claims from the September 2020 update of the FY 2020 MedPAR file, we identified one case reporting procedure code D0Y6KZZ (Laser interstitial thermal therapy of spinal cord) with an average length of stay of 6.5 days and average costs of $5,130, and two cases reporting procedure code DVY0KZZ (Laser interstitial thermal therapy of prostate) with an average length of stay of 8.5 days and average costs of $20,329 in MS–DRGs 981, 982, or 983. Although our claims analysis identified a limited number of cases reporting procedures describing LITT, our clinical advisors believe that these procedures would be more appropriately designated as Non-extensive procedures because they are more consistent with other procedures on the Non-extensive procedure code list.

Therefore, we are proposing to reassign the listed procedure codes describing LITT of various body parts from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, without CC/MCC, respectively) to non-extensive procedure code 0DQ540ZZ. In our analysis of claims from the March 2020 update of the FY 2019 MedPAR file, we identified two cases reporting procedure code 0DQ57ZZ (Repair esophagus, via natural or artificial opening), 0DQ57ZZ (Repair esophagus, via natural or artificial opening endoscopic). Whenever one of these five procedure codes is reported on a claim that is unrelated to the MDC to which the case was assigned based on the principal diagnosis, it currently results in assignment to MS–DRGs 981, 982, and 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively). Specifically, our clinical advisors stated that three of these five procedures warrant redesignation from the extensive procedure list and to MS–DRGs 981, 982, and 983 (Non-Extensive Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively).

As discussed in section II.D.4.b. of the preamble of this proposed rule, we identified procedure code 0T9D0ZZ (Drainage of urethra, open approach) during our review of procedure code 0U9L0ZZ (Drainage of vestibular gland, open approach), which is currently designated as a non-O.R. procedure. We noted that the procedure described by procedure code 0T9D0ZZ represents the male equivalent of the female procedure described by procedure code 0U9L0ZZ. Procedure code 0T9D0ZZ is currently designated as an extensive O.R. procedure and is reported to describe procedures performed on the Cowper’s (bulboeuthral) gland in males. Whenever this procedure code is reported on a claim that is unrelated to the MDC to which the case was assigned based on the principal diagnosis, it currently results in assignment to MS–DRGs 981, 982, and 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively).
Diagnosis with MCC, with CC, without CC/MCC, respectively).

Our clinical advisors stated that this procedure warrants redesignation from the extensive procedure list and MS–DRGs 981, 982, and 983 to the non-extensive procedure list and MS–DRGs 987, 988, and 989 (Non-Extensive Procedure Unrelated to Principal Diagnosis with MCC, with CC, without CC/MCC, respectively). Specifically, our clinical advisors stated that the procedure described by procedure code 0T9D0ZZ continues to warrant an O.R. designation because it is performed on deeper structures and requires a higher level of technical skill and it is a more complex procedure when compared to the non-O.R. procedure described by procedure code 0U9L0ZZ, however, abscess formation in the Cowper’s (bulbourethral) glands is uncommon and can often be treated with ultrasound guided percutaneous aspiration. The need for open surgical management is rare and includes chronic infection unresponsive to non-operative management and complicated acute infection such as perianal fistula formation. Open surgical management would require use of the operating room for both appropriate anesthesia and for the resources required to perform the more invasive perineal surgical dissection. Therefore, our clinical advisors believe a non-extensive O.R. designation is suitable for this procedure.

We analyzed claims data from the March 2020 update of the FY 2019 MedPAR file and the September 2020 update of the FY 2020 MedPAR file for cases reporting procedure code 0T9D0ZZ in MS–DRGs 981, 982, and 983. We found one case in MS–DRG 981 with an average length of stay of 8.0 days and average costs of $23,566 in the March 2020 update of the FY 2019 MedPAR file, and no cases in the September 2020 update of the FY 2020 MedPAR file. Although our claims analysis identified only one case reporting procedure code 0T9D0ZZ, our clinical advisors believe that these procedures would be more appropriately designated as Non-extensive procedures because they are more consistent with other procedures on the Non-extensive procedure code list.

Therefore, we are proposing to reassign procedure code 0T9D0ZZ from MS–DRGs 981, 982, and 983 (Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) to MS–DRGs 987, 988, and 989 (Non-extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) for FY 2022.

11. Operating Room (O.R.) and Non-O.R. Procedures

Issues

a. Background

Under the IPPS MS–DRGs (and former CMS MS–DRGs), we have a list of procedure codes that are considered operating room (O.R.) procedures. Historically, we developed this list using physician panels that classified each procedure code based on the procedure and its effect on consumption of hospital resources. For example, generally the presence of a surgical procedure which required the use of the operating room would be expected to have a significant effect on the type of hospital resources (for example, operating room, recovery room, and anesthesia) used by a patient, and therefore, these patients were considered surgical. Because the claims data generally available do not precisely indicate whether a patient was taken to the operating room, surgical patients were identified based on the procedures that were performed. Generally, if the procedure was not expected to require the use of the operating room, the patient would be considered medical (non-O.R.).

Currently, each ICD–10–PCS procedure code has designations that determine whether and in what way the presence of that procedure on a claim impacts the MS–DRG assignment. First, each ICD–10–PCS procedure code is either designated as an O.R. procedure for purposes of MS–DRG assignment (“O.R. procedures”) or is not designated as an O.R. procedure for purposes of MS–DRG assignment (“non-O.R. procedures”). Second, for each procedure that is designated as an O.R. procedure, that O.R. procedure is further classified as either extensive or non-extensive. Third, for each procedure that is designated as a non-O.R. procedure, that non-O.R. procedure is further classified as either affecting the MS–DRG assignment or not affecting the MS–DRG assignment. We refer to these designations that do affect MS–DRG assignment as “non O.R. affecting the MS–DRG.” For new procedure codes that have been finalized through the ICD–10 Coordination and Maintenance Committee meeting process and are proposed to be classified as O.R. procedures or non-O.R. procedures affecting the MS–DRG, our clinical advisors recommend the MS–DRG assignment which is then made available in association with the proposed rule (Table 6B.—New Procedure Codes) and subject to public comment. These proposed assignments are generally based on the assignment of predecessor codes or the assignment of similar codes. For example, we generally examine the MS–DRG assignment for similar procedures, such as the other approaches for that procedure, to determine the most appropriate MS–DRG assignment for procedures proposed to be newly designated as O.R. procedures. As discussed in section II.D.13 of the preamble of this proposed rule, we are making Table 6B.—New Procedure Codes—FY 2022 available on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html. We also refer readers to the ICD–10 MS–DRG Version 38.1 Definitions Manual at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/MS-DRG-Classifications-and-Software.html for detailed information regarding the designation of procedures as O.R. or non-O.R. (affecting the MS–DRG) in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index.

In the FY 2020 IPPS/LTCH PPS proposed rule, we stated that, given the long period of time that has elapsed since the original O.R. (extensive and non-extensive) and non-O.R. designations were established, the incremental changes that have occurred to these O.R. and non-O.R. procedure code lists, and changes in the way inpatient care is delivered, we plan to conduct a comprehensive, systematic review of the ICD–10–PCS procedure codes. This will be a multi year project during which we will also review the process for determining when a procedure is considered an operating room procedure. For example, we may restructure the current O.R. and non O.R. designations for procedures by leveraging the detail that is now available in the ICD–10 claims data. We refer readers to the discussion regarding the designation of procedure codes in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38066) where we stated that the determination of when a procedure code should be designated as an O.R. procedure has become a much more complex task. This is, in part, due to the number of various approaches available in the ICD–10–PCS classification, as well as changes in medical practice. While we have typically evaluated procedures on the basis of whether or not they would be performed in an operating room, we believe that there may be other factors to consider with regard to resource utilization,
We discussed in the FY 2020 IPPS/LTCH PPS proposed rule that as a result of this planned review and potential restructuring, procedures that are currently designated as O.R. procedures may no longer warrant that designation, and conversely, procedures that are currently designated as non-O.R. procedures may warrant an O.R. type of designation. We intend to consider the resources used and how a procedure should affect the MS–DRG assignment. We may also consider the effect of specific surgical approaches to evaluate whether to subdivide specific MS DRGs based on a specific surgical approach. We plan to utilize our available MedPAR claims data as a basis for this review and the input of our clinical advisors. As part of this comprehensive review of the procedure codes, we also intend to evaluate the MS–DRG assignment of the procedures and the current surgical hierarchy because both of these factor into the process of refining the ICD–10 MS–DRGs to better recognize complexity of service and resource utilization.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58540 through 58541), we provided a summary of the comments we had received in response to our request for feedback on what factors or criteria to consider in determining whether a procedure is designated as an O.R. procedure in the ICD–10–PCS classification system for future consideration.

In consideration of the PHE, we believe it may be appropriate to allow additional time for the claims data to stabilize prior to selecting the timeframe to analyze for this review. Additional time is also necessary as we continue to develop our process and methodology. Therefore, we will provide more detail on this analysis and the methodology for conducting this review in future rulemaking.

In this proposed rule, we are addressing requests that we received regarding changing the designation of specific ICD–10–PCS procedure codes from non-O.R. to O.R. procedures, or changing the designation from O.R. procedure to non-O.R. procedure. In this section of the rule we discuss the process that was utilized for evaluating the requests that were received for FY 2022 consideration. For each procedure, our clinical advisors considered—

- Whether the procedure would typically require the resources of an operating room;
- Whether it is an extensive or a nonextensive procedure; and
- To which MS–DRGs the procedure should be assigned.

We note that many MS–DRGs require the presence of any O.R. procedure. As a result, cases with a principal diagnosis associated with a particular MS–DRG would, by default, be grouped to that MS–DRG. Therefore, we do not list these MS–DRGs in our discussion in this section of this rule. Instead, we only discuss MS–DRGs that require explicitly adding the relevant procedure codes to the GROUPER logic in order for those procedure codes to affect the MS–DRG assignment as intended. In cases where we are proposing to change the designation of procedure codes from non-O.R. procedures to O.R. procedures, we also are proposing one or more MS–DRGs with which these procedures are clinically aligned and to which the procedure code would be assigned.

In addition, cases that contain O.R. procedures will map to MS–DRG 981, 982, or 983 (Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC, and without CC/MCC, respectively) when they do not contain a principal diagnosis that corresponds to one of the MDCs to which that procedure is assigned. These procedures need not be assigned to MS–DRGs 981 through 989 in order for this to occur. Therefore, if requestors included some or all of MS–DRGs 981 through 989 in their request or included MS–DRGs that require the presence of any O.R. procedure, we did not specifically address that aspect in summarizing their request or our response to the request in this section of this rule.

For procedures that would not typically require the resources of an operating room, our clinical advisors determined if the procedure should affect the MS–DRG assignment.

We received several requests to change the designation of specific ICD–10–PCS procedure codes from non-O.R. procedures to O.R. procedures, or to change the designation from O.R. procedures to non-O.R. procedures. In this section of this rule, we detail and respond to some of those requests. With regard to the remaining requests, our clinical advisors believe it is appropriate to consider these requests as part of our comprehensive review of the procedure codes as previously discussed.

b. O.R. Procedures to Non-O.R. Procedures

(1) Open Drainage of Subcutaneous Tissue and Fascia

One requestor identified the following ICD–10–PCS procedure code that describes the open drainage of right lower leg subcutaneous tissue and fascia, shown in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0J9N0ZZ</td>
<td>Drainage of right lower leg subcutaneous tissue and fascia, open approach</td>
</tr>
</tbody>
</table>

In the ICD–10 MS–DRG Version 38.1 Definitions Manual, this ICD–10–PCS procedure code is currently recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor noted that this procedure consumes resources comparable to related ICD–10–PCS procedure code 0J9N00Z (Drainage of right lower leg subcutaneous tissue and fascia with drainage device, open approach) that describes the open drainage of right lower leg subcutaneous tissue and fascia with a drainage device, which is currently designated as a Non-O.R. procedure. The requestor stated that these comparable procedures should be recognized similarly for purposes of MS–DRG assignment.

During our review of this issue, we identified 21 ICD–10–PCS procedure codes that describe the open drainage of subcutaneous tissue and fascia, shown in the following table that are clinically similar to ICD–10–PCS code 0J9N0ZZ, and are also designated as O.R.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0J900ZZ</td>
<td>Drainage of scalp subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J910ZZ</td>
<td>Drainage of face subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J940ZZ</td>
<td>Drainage of right neck subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J950ZZ</td>
<td>Drainage of left neck subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J960ZZ</td>
<td>Drainage of chest subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J970ZZ</td>
<td>Drainage of back subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J980ZZ</td>
<td>Drainage of abdomen subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J990ZZ</td>
<td>Drainage of buttock subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9B0ZZ</td>
<td>Drainage of perineum subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9C0ZZ</td>
<td>Drainage of pelvic region subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9D0ZZ</td>
<td>Drainage of right upper arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9F0ZZ</td>
<td>Drainage of left upper arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9G0ZZ</td>
<td>Drainage of right lower arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9H0ZZ</td>
<td>Drainage of left lower arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9J0ZZ</td>
<td>Drainage of right hand subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9K0ZZ</td>
<td>Drainage of left hand subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9L0ZZ</td>
<td>Drainage of right upper leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9M0ZZ</td>
<td>Drainage of left upper leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9P0ZZ</td>
<td>Drainage of left lower leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9Q0ZZ</td>
<td>Drainage of right foot subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9R0ZZ</td>
<td>Drainage of left foot subcutaneous tissue and fascia, open approach</td>
</tr>
</tbody>
</table>

We reviewed these procedures and our clinical advisors agree that procedures that describe the open drainage of subcutaneous tissue and fascia consume resources comparable to the related ICD–10–PCS procedure codes that describe the open drainage of subcutaneous tissue and fascia with a drainage device that are currently designated as non-O.R. procedures. These procedures do not typically require the resources of an operating room, and are not surgical in nature. Therefore, we are proposing to remove the 22 codes listed in the following table from the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures. Under this proposal, these procedures would no longer impact MS–DRG assignment.
<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0J900ZZ</td>
<td>Drainage of scalp subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J910ZZ</td>
<td>Drainage of face subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J940ZZ</td>
<td>Drainage of right neck subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J950ZZ</td>
<td>Drainage of left neck subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J960ZZ</td>
<td>Drainage of chest subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J970ZZ</td>
<td>Drainage of back subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J980ZZ</td>
<td>Drainage of abdomen subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J990ZZ</td>
<td>Drainage of buttock subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9B0ZZ</td>
<td>Drainage of perineum subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9C0ZZ</td>
<td>Drainage of pelvic region subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9D0ZZ</td>
<td>Drainage of right upper arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9F0ZZ</td>
<td>Drainage of left upper arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9G0ZZ</td>
<td>Drainage of right lower arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9H0ZZ</td>
<td>Drainage of left lower arm subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9J0ZZ</td>
<td>Drainage of right hand subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9K0ZZ</td>
<td>Drainage of left hand subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9L0ZZ</td>
<td>Drainage of right upper leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9M0ZZ</td>
<td>Drainage of left upper leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9N0ZZ</td>
<td>Drainage of right lower leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9P0ZZ</td>
<td>Drainage of left lower leg subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9Q0ZZ</td>
<td>Drainage of right foot subcutaneous tissue and fascia, open approach</td>
</tr>
<tr>
<td>0J9R0ZZ</td>
<td>Drainage of left foot subcutaneous tissue and fascia, open approach</td>
</tr>
</tbody>
</table>

(1) Percutaneous Introduction of Substance Into Cranial Cavity and Brain

One requestor identified ICD–10–PCS procedure code XW0Q316 (Introduction of eladocagene exuparvovec into cranial cavity and brain, percutaneous approach, new technology group 6) that the requestor stated is currently not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor recommended that this procedure be designated as an O.R. procedure because the procedure requires traversing the skull in order to place a substance within the cranial cavity or brain. The requestor noted that CMS disagreed with designating this procedure as an O.R. procedure last year in the absence of claims data; however, the requestor stated that because the skull must be opened by drilling or cutting a burr hole through the skull, this procedure warrants O.R. status similar to other transcranial procedures performed with an open or percutaneous approach that are classified as O.R. procedures.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure code XW0Q316 is currently designated as a non-O.R. procedure for purposes of MS–DRG assignment. We agree with the requestor that procedure code XW0Q316 describes a procedure that involves the creation of a burr hole in the skull. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58579 through 58580), we stated that, consistent with our annual process of assigning new procedure codes to MDCs and MS–DRGs, and designating a procedure as an O.R. or non-O.R. procedure, we reviewed the predecessor procedure code assignment. The predecessor code for procedure code XW0Q316 is procedure code 3E0Q3GC (Introduction of other therapeutic substance into cranial cavity and brain, percutaneous approach) which is designated as a non-O.R. procedure. In the absence of claims data, our clinical advisors also considered the indication for the specific procedure being described by the new procedure code, the treatment difficulty, and the resources utilized.

Upon further review and consideration, our clinical advisors agree that procedure code XW0Q316 describing a procedure that is performed by creating a burr hole in the skull warrants designation as an O.R. procedure consistent with other percutaneous procedures performed on the cranial cavity and brain body parts. Therefore, we are proposing to add this procedure code to the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E–Operating Room Procedures and Procedure Code/MS–DRG Index as an O.R. procedure, assigned to MS–DRGs 628, 629, and 630 (Other Endocrine, Nutritional and Metabolic O.R. Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 10 (Endocrine, Nutritional and Metabolic Diseases and Disorders) and to MS–DRGs 987, 988, and 989 (Non-Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC and without MCC/CC, respectively).

(2) Open Drainage of Maxilla and Mandible

One requestor identified three ICD–10–PCS procedure codes that describe the open drainage of maxilla or mandible that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The three procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0N9R0ZZ</td>
<td>Drainage of maxilla, open approach</td>
</tr>
<tr>
<td>0N9T0ZZ</td>
<td>Drainage of right mandible, open approach</td>
</tr>
<tr>
<td>0N9V0ZZ</td>
<td>Drainage of left mandible, open approach</td>
</tr>
</tbody>
</table>

The requestor stated that procedures that describe the open drainage of the maxilla or mandible should be designated as O.R. procedures because these procedures, indicated for diagnoses such as subperiosteal abscesses, are performed in the operating room under general anesthesia and involve making open incisions through muscle and stripping away the periosteum. The requestor identified procedure codes 0W950ZZ (Drainage of lower jaw, open approach) and 0W940ZZ (Drainage of upper jaw, open approach) that are currently designated as O.R. procedures. The requestor noted that ICD–10–PCS guidelines instruct that the procedure codes in Anatomical Regions, General, can be used when the procedure is performed on an anatomical region rather than a specific body part, or on the rare occasion when no information is available to support assignment of a code to a specific body part. The requestor stated that because bone is a specific body part in ICD–10–PCS, procedure codes should be assigned for subperiosteal drainage of mandible and maxilla bones from table 0N9. Drainage of Head and Facial Bones, instead of codes from table 0W9, Drainage of Anatomical Regions, General, when these procedures are performed. Therefore, the requestor stated that procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ should also be recognized as O.R. procedures for purposes of MS–DRG assignment.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed the procedure codes as described in the opening drainage of the maxilla or mandible are typically performed in the operating room under general anesthesia. Our clinical advisors state that these procedures can be done in an oral surgeon’s office or an outpatient setting and are rarely performed in the inpatient setting. Our clinical advisors also state a correlation cannot be made between procedures performed in general anatomic regions and procedures performed in specific body parts because these procedures coded with the general anatomic regions body part represent a broader range of procedures that cannot be coded to a specific body part. Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ.

(3) Thoracoscopic Extirpation of Pleural Cavities

One requestor identified ICD–10–PCS procedure codes 0VC942ZZ (Extirpation of matter from right pleural cavity, percutaneous endoscopic approach) and 0WCB4ZZ (Extirpation of matter from left pleural cavity, percutaneous invasion through muscle and stripping away the periosteum. The requestor identified procedure codes 0W950ZZ (Drainage of lower jaw, open approach) and 0W940ZZ (Drainage of upper jaw, open approach) that are currently designated as O.R. procedures. The requestor noted that ICD–10–PCS guidelines instruct that the procedure codes in Anatomical Regions, General, can be used when the procedure is performed on an anatomical region rather than a specific body part, or on the rare occasion when no information is available to support assignment of a code to a specific body part. The requestor stated that because bone is a specific body part in ICD–10–PCS, procedure codes should be assigned for subperiosteal drainage of mandible and maxilla bones from table 0N9. Drainage of Head and Facial Bones, instead of codes from table 0W9, Drainage of Anatomical Regions, General, when these procedures are performed. Therefore, the requestor stated that procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ should also be recognized as O.R. procedures for purposes of MS–DRG assignment.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed the procedure codes as described in the opening drainage of the maxilla or mandible are typically performed in the operating room under general anesthesia. Our clinical advisors state that these procedures can be done in an oral surgeon’s office or an outpatient setting and are rarely performed in the inpatient setting. Our clinical advisors also state a correlation cannot be made between procedures performed in general anatomic regions and procedures performed in specific body parts because these procedures coded with the general anatomic regions body part represent a broader range of procedures that cannot be coded to a specific body part. Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ.

(3) Thoracoscopic Extirpation of Pleural Cavities

One requestor identified ICD–10–PCS procedure codes 0VC942ZZ (Extirpation of matter from right pleural cavity, percutaneous endoscopic approach) and 0WCB4ZZ (Extirpation of matter from left pleural cavity, percutaneous invasion through muscle and stripping away the periosteum. The requestor identified procedure codes 0W950ZZ (Drainage of lower jaw, open approach) and 0W940ZZ (Drainage of upper jaw, open approach) that are currently designated as O.R. procedures. The requestor noted that ICD–10–PCS guidelines instruct that the procedure codes in Anatomical Regions, General, can be used when the procedure is performed on an anatomical region rather than a specific body part, or on the rare occasion when no information is available to support assignment of a code to a specific body part. The requestor stated that because bone is a specific body part in ICD–10–PCS, procedure codes should be assigned for subperiosteal drainage of mandible and maxilla bones from table 0N9. Drainage of Head and Facial Bones, instead of codes from table 0W9, Drainage of Anatomical Regions, General, when these procedures are performed. Therefore, the requestor stated that procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ should also be recognized as O.R. procedures for purposes of MS–DRG assignment.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed the procedure codes as described in the opening drainage of the maxilla or mandible are typically performed in the operating room under general anesthesia. Our clinical advisors state that these procedures can be done in an oral surgeon’s office or an outpatient setting and are rarely performed in the inpatient setting. Our clinical advisors also state a correlation cannot be made between procedures performed in general anatomic regions and procedures performed in specific body parts because these procedures coded with the general anatomic regions body part represent a broader range of procedures that cannot be coded to a specific body part. Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 0N9R0ZZ, 0N9T0ZZ, and 0N9V0ZZ.
endoscopic approach) that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The requestor stated that these procedures should be designated as O.R. procedures because they are thoracoscopic procedures that are always performed in the operating room under general anesthesia. The requestor stated procedure codes 0W904ZZ (Drainage of right pleural cavity, percutaneous endoscopic approach) and 0W9B4ZZ (Drainage of left pleural cavity, percutaneous endoscopic approach) are currently designated as O.R. procedures, therefore procedure codes 0WC94ZZ and 0WCB4ZZ should also be recognized as O.R. procedures for purposes of MS–DRG assignment because they utilize the same resources.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0WC94ZZ and 0WCB4ZZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed this issue and disagree that procedure codes describing the thoracoscopic drainage of the pleural cavities should necessarily have the same designation as procedure codes describing the thoracoscopic extirpation of matter from the pleural cavities. We note that our review of the designation of ICD–10–PCS codes as an O.R. procedure or a non-O.R. procedure considers the resources used as well as whether that procedure should affect the MS–DRG assignment, and if so, in what way. Our clinical advisors state that thoracoscopic drainage of the pleural cavities is performed for distinct indications in clinically different scenarios. Our clinical advisors state that drainage is the process of taking out, or letting out, fluids and/or gases from a body part and is typically performed in the pleural cavity for indications such as congestive heart failure, infection, hemothorax and empyema. In contrast, the procedures describing the thoracoscopic extirpation of the pleural cavities are performed for a wider range of indications because the solid matter removed may be an abnormal byproduct of a biological function or a foreign body. Our clinical advisors note that the thoracoscopic extirpation of the pleural cavities is generally performed with other procedures such as heart transplant, lung transplant mechanical ventilation, and other major chest procedures and would not be the main reason for inpatient hospitalization or be considered the principal driver of resource expenditure.

Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 0WC94ZZ and 0WCB4ZZ.

(4) Open Pleural Biopsy

One requestor identified ICD–10–PCS procedure codes 0BBN0ZX (Excision of right pleura, open approach, diagnostic) and 0BPP0ZX (Excision of left pleura, open approach, diagnostic), that describe an open pleural biopsy that the requestor stated are performed in the operating room with general anesthesia. The requestor also stated that procedure codes 0BBN0ZZ (Excision of right pleura, open approach) and 0BPP0ZZ (Excision of left pleura, open approach) describing open pleural biopsy for non-diagnostic purposes are justifiably designated as O.R. procedures. According to the requestor, these procedure codes describing an open pleural biopsy should be designated as O.R. procedures regardless of whether they are performed for diagnostic or therapeutic purposes.

We note that under the ICD–10–PCS procedure classification, biopsy procedures are identified by the 7th digit qualifier value “diagnostic” in the code description. In response to the requestor’s suggestion that procedures performed for a pleural biopsy by an open approach, regardless of whether it is a diagnostic or therapeutic procedure, should be designated as an O.R. procedure, we examined procedure codes 0B80FZ, 0B82FZ, 0B8AFZ, and 0B80FZ.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0B80FZ and 0B82FZ are currently designated as O.R. procedures, however, procedure codes 0B80FZ and 0B82FZ are not recognized as O.R. procedures for purposes of MS–DRG assignment. We agree with the requestor that procedure codes 0B80FZ and 0B82FZ would typically require the resources of an operating room. Our clinical advisors also agree that procedure codes 0B80FZ and 0B82FZ would typically require the resources of an operating room.

Therefore, we are proposing to add these 2 procedure codes to the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures, assigned to MS–DRGs 166, 167, and 168 (Other Respiratory System O.R. Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 04 (Diseases and Disorders of the Respiratory System).

(5) Percutaneous Revision of Intraluminal Devices

One requestor identified five ICD–10–PCS procedure codes that describe the percutaneous revision of intraluminal vascular devices that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The five procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02WY3DZ</td>
<td>Revision of intraluminal device in the great vessel, percutaneous approach</td>
</tr>
<tr>
<td>03WY3DZ</td>
<td>Revision of intraluminal device in upper artery, percutaneous approach</td>
</tr>
<tr>
<td>04WY3DZ</td>
<td>Revision of intraluminal device in lower artery, percutaneous approach</td>
</tr>
<tr>
<td>05WY3DZ</td>
<td>Revision of intraluminal device in upper vein, percutaneous approach</td>
</tr>
<tr>
<td>06WY3DZ</td>
<td>Revision of intraluminal device in lower vein, percutaneous approach</td>
</tr>
</tbody>
</table>

The requestor stated that the procedure codes that describe the percutaneous revision of intraluminal vascular devices within arteries, veins, and great vessels should be designated as O.R. procedures to compensate for the resources needed to perform these procedures. The requestor also stated procedures to reattach, realign, or otherwise revise intraluminal devices percutaneously require anesthesia, specialized equipment for intravascular visualization, significant skill, and time, therefore, it is important for these codes
status.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 02WY3DZ, 03WY3DZ, 04WY3DZ, 05WY3DZ, and 06WY3DZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. We agree with the requestor that these five ICD–10–PCS procedure codes typically require the resources of an operating room. Therefore, to the FY 2022 ICD–10 MS–DRG Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index, we are proposing to add code 02WY3DZ as an O.R. procedure assigned to MS–DRGs 270, 271, and 272 (Other Major Cardiovascular Procedures, with MCC, with CC, and without CC/MCC, respectively) in MDC 05 (Diseases and Disorders of the Circulatory System). We are also proposing to add codes 03WY3DZ, 04WY3DZ, 05WY3DZ, and 06WY3DZ as O.R. procedures assigned to MS–DRGs 252, 253, and 254 (Other Vascular Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 05 (Diseases and Disorders of the Circulatory System).

The requestor stated that these procedures are currently designated as non-O.R. procedures that route to surgical MS–DRGs only when assigned in combination with a principal diagnosis within MDC 05 (Diseases and Disorders of the Circulatory System). The requestor stated these procedures should also be designated as O.R. procedures when assigned in combination with diagnoses outside of the circulatory system, such as sepsis or trauma, to compensate for the associated resource use, skill requirements, and device costs.

In the ICD–10 MS–DRG Version 38.1 Definitions Manual, the nine ICD–10–PCS procedure codes that describe left atrial appendage closure are currently recognized as non-O.R. procedures that affect the MS–DRG to which they are assigned. We refer readers to section II.D.5.d of the preamble of this proposed rule, where we address ICD–10–PCS procedure codes 02L70CK, 02L70DK, and 02L70ZK that describe a LAAC procedure performed with an open approach. These codes were discussed in response to a request to reassign these codes to MS–DRGs 228 and 229 (Other Cardiothoracic Procedures with and without MCC, respectively) and, for the reasons discussed, we are proposing to maintain the assignment in MS–DRGs 273 and 274 (Percutaneous and Other Intracardiac Procedures with and without MCC, respectively) in MDC 05.

Our clinical advisors reviewed this related issue and believe the current designation of LAAC procedures as non-O.R. procedures that affect the assignment for MS–DRGs 273 and 274 is clinically appropriate to account for the subset of patients undergoing left atrial appendage closure specifically. LAAC is indicated and approved as a treatment option for patients diagnosed with atrial fibrillation, a heart rhythm disorder that can lead to cardiovascular blood clot formation, who are also at increased risk for stroke. LAAC procedures block off the left atrial appendage to prevent emboli that may form in the left atrial appendage from exiting and traveling to other sites in the vascular system, thereby preventing the occurrence of ischemic stroke and systemic thromboembolism. The ICD–10–CM diagnosis codes used to report atrial fibrillation are currently assigned to MDC 05 (Diseases and Disorders of the Circulatory System). Our clinical advisors believe that circumstances in which a patient is admitted for a principal diagnosis outside of MDC 05 and a left atrial appendage closure is performed as the only surgical procedure in the same admission are infrequent, and if they do occur, the LAAC procedure would not be a significant contributing factor in the increased intensity of resources needed for facilities to manage these complex cases. Our clinical advisors state LAAC procedures generally do not require the resources of an operating room. LAAC procedures are most often performed percutaneously in settings such as cardiac catheterization laboratories and take approximately one hour. When performed with an open approach or percutaneous endoscopic approach, these procedures share similar factors such as complexity, and resource
utilization with all other LAAC procedures. Therefore, we are proposing to maintain the current designation of ICD–10–PCS procedure codes 02L70CK, 02L70DK, 02L70ZK, 02L73CK, 02L73DK, 02L73ZK, 02L74CK, 02L74DK, and 02L74ZK as non-O.R. procedures affecting the MS–DRGs to which they are assigned.

(7) Arthroscopic Drainage of Joints

One requestor identified six ICD–10–PCS procedure codes that describe the percutaneous endoscopic drainage of joints that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The six procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0S9C4ZZ</td>
<td>Drainage of right knee joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0S9D4ZZ</td>
<td>Drainage of left knee joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0S994ZZ</td>
<td>Drainage of right hip joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0S9B4ZZ</td>
<td>Drainage of left hip joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0R9J4ZZ</td>
<td>Drainage of right shoulder joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0R9K4ZZ</td>
<td>Drainage of left shoulder joint, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

The requestor stated that these procedures should be designated as O.R. procedures because procedures describing the arthroscopic drainage of major joints such as knee, hip, and shoulder are performed in the operating room under general anesthesia. The requestor stated these procedures are indicated for conditions such as symptomatic septic/pyogenic arthritis, which can require inpatient admission for intravenous antibiotics and arthroscopic drainage to resolve infection. Therefore, the requestor stated it is reasonable for these arthroscopic procedures to be designated as O.R. procedures to compensate for operating room resources.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0S9C4ZZ, 0S9D4ZZ, 0S994ZZ, 0S9B4ZZ, 0R9J4ZZ, and 0R9K4ZZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed this issue and disagree that procedure codes describing the arthroscopic irrigation of joints should be designated as O.R. procedures. Our clinical advisors note the arthroscopic irrigation of joints is rarely performed independently as a standalone procedure in the inpatient setting to be considered the principal driver of resource expenditure in those admissions. Instead, the arthroscopic irrigation of joints is generally performed with other definitive procedures such as debridement or synovectomy. We note that in the operative note sent by the requestor to support the requested change in O.R. status, the arthroscopic irrigation of the joint was performed along with a surgical debridement procedure. Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 3E1U48X and 3E1U48Z.

(8) Arthroscopic Irrigation of Joints

One requestor identified ICD–10–PCS procedure codes 3E1U48X (Irrigation of joints using irrigating substance, percutaneous endoscopic approach, diagnostic) and 3E1U48Z (Irrigation of joints using irrigating substance, percutaneous endoscopic approach) that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The requestor stated that these procedures should be designated as O.R. procedures because the arthroscopic irrigation of joints such as knee, hip, and shoulder is performed in the operating room under general anesthesia. The requestor states procedures codes 3E1U48X and 3E1U48Z are used to describe surgical joint irrigations in the absence of more definitive procedures, therefore procedure codes 3E1U48X and 3E1U48Z should be recognized as O.R. procedures for purposes of MS–DRG assignment.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 3E1U48X and 3E1U48Z are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed this issue and disagree that procedure codes describing the arthroscopic irrigation of joints should be designated as O.R. procedures. Our clinical advisors note the arthroscopic irrigation of joints is rarely performed independently as a standalone procedure in the inpatient setting to be considered the principal driver of resource expenditure in those admissions. Instead, the arthroscopic irrigation of joints is generally performed with other definitive procedures such as debridement or synovectomy. We note that in the operative note sent by the requestor to support the requested change in O.R. status, the arthroscopic irrigation of the joint was performed along with a surgical debridement procedure. Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 3E1U48X and 3E1U48Z.

(9) Percutaneous Reposition With Internal Fixation

One requestor identified four ICD–10–PCS procedure codes describing procedures performed on the sacroiliac and hip joints that involve percutaneous repositioning with internal fixation that the requestor stated are not recognized as O.R. procedures for purposes of MS–DRG assignment but warrant an O.R. designation. The procedure codes are listed in the following table.
Our clinical advisors reviewed the procedures described by these four procedure codes and agree that these percutaneous reposition procedures involving internal fixation in the sacroiliac and hip joint warrant an O.R. designation. They noted that these procedures are major operations that would require the resources of an operating room, involve a higher level of technical complexity and a greater utilization of hospital resources.

Therefore, we are proposing to add the two procedure codes describing percutaneous reposition of the sacroiliac joint with internal fixation procedures (0SS734Z and 0SS834Z) to the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures, assigned to MS–DRGs 515, 516, and 517 (Other Musculoskeletal System and Connective Tissue O.R. Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue) and to MS–DRGs 987, 988, and 989 (Non-Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC and without MCC/CC, respectively). We are also proposing to add the two procedure codes describing percutaneous reposition of the hip joint with internal fixation procedures (0SS934Z and 0SSB34Z) to the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures, assigned to MS–DRGs 480, 481, and 482 (Hip and Femur Procedures Except Major Joint with MCC, with CC, and without CC/MCC, respectively) in MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue) and to MS–DRGs 987, 988, and 989 (Non-Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC and without MCC/CC, respectively).

(10) Open Insertion and Removal of Spacer Into Shoulder Joint

One requestor identified four ICD–10–PCS procedure codes describing procedures performed on the shoulder joint that involve the insertion or removal of a spacer by an open approach that the requestor stated are not recognized as O.R. procedures for purposes of MS–DRG assignment. The procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0RHK08Z</td>
<td>Insertion of spacer into left shoulder joint, open approach</td>
</tr>
<tr>
<td>0RHK08Z</td>
<td>Insertion of spacer into right shoulder joint, open approach</td>
</tr>
<tr>
<td>0RPK08Z</td>
<td>Removal of spacer from left shoulder joint, open approach</td>
</tr>
<tr>
<td>0RPJ08Z</td>
<td>Removal of spacer from right shoulder joint, open approach</td>
</tr>
<tr>
<td>0RPJ48Z</td>
<td>Removal of spacer from right shoulder joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0RPK48Z</td>
<td>Removal of spacer from left shoulder joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0RHJ48Z</td>
<td>Insertion of spacer into right shoulder joint, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0RHK48Z</td>
<td>Insertion of spacer into left shoulder joint, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

According to the requestor, insertion and removal of joint spacers from the hips and knees are designated with an O.R. procedure status and although similar procedures performed on the shoulder joint may be performed less frequently, these procedures warrant an O.R. designation because they are performed in the operating room under general anesthesia. During our review, we noted that the following procedure codes describing procedures performed on the shoulder joint that involve the insertion or removal of a spacer by a percutaneous endoscopic approach are also not recognized as O.R. procedures for purposes of MS–DRG assignment.
Our clinical advisors reviewed the procedures described by these eight procedure codes and agree that these procedures involving the insertion or removal of a spacer in the shoulder joint with an open or percutaneous endoscopic approach warrant an O.R. designation. They noted that the insertion of a spacer is typically performed to treat an infection at the site of a previously placed prosthesis and the removal of a spacer is typically performed once the infection is healed and the site is ready for a new prosthetic replacement or to exchange for a new spacer if the infection is not yet healed.

Therefore, we are proposing to add the listed procedure codes describing the insertion or removal of spacer in the shoulder joint to the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures, assigned to MS–DRGs 510, 511, and 512 (Shoulder, Elbow or Forearm Procedures, Except Major Joint Procedures with MCC, with CC, and without CC/MCC, respectively) in MDC 08 (Diseases and Disorders of the Musculoskeletal System and Connective Tissue) and to MS–DRGs 987, 988, and 989 (Non-Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC, with CC and without MCC/CC, respectively).

(11) Open/Percutaneous Extirpation of Jaw

One requestor identified four ICD–10–PCS procedure codes that describe the extirpation of matter from the upper or lower jaw that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The four procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0WC40ZZ</td>
<td>Extirpation of matter from upper jaw, open approach</td>
</tr>
<tr>
<td>0WC44ZZ</td>
<td>Extirpation of matter from upper jaw, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0WC50ZZ</td>
<td>Extirpation of matter from lower jaw, open approach</td>
</tr>
<tr>
<td>0WC54ZZ</td>
<td>Extirpation of matter from lower jaw, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

The requestor stated that the procedure codes that describe the extirpation of matter from the upper or lower jaw by an open or percutaneous endoscopic approach should be designated as O.R. procedures. The requestor stated these procedures would commonly be performed under general anesthesia and require the resources of an operating room. The requestor also stated that these ICD–10–PCS codes were specifically created to describe the surgical evacuation of solid matter from deep jaw structures therefore, it is important for these codes to be designated with O.R. procedure status.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0WC40ZZ, 0WC44ZZ, 0WC50ZZ, 0WC54ZZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. We agree with the requestor that these four ICD–10–PCS procedure codes typically require the resources of an operating room. Therefore, to the FY 2022 ICD–10 MS–DRG Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index, we are proposing to add codes 0WC40ZZ, 0WC44ZZ, 0WC50ZZ, 0WC54ZZ as O.R. procedures assigned to MS–DRGs 143, 144 and 145 (Other Ear, Nose, Mouth and Throat O.R. procedures, with MCC, with CC, and without CC/MCC, respectively) in MDC 03 (Diseases and Disorders of the Ear, Nose, Mouth and Throat).

(12) Open Extirpation of Subcutaneous Tissue and Fascia

One requestor identified 22 ICD–10–PCS procedure codes that describe the extirpation of matter from the subcutaneous tissue and fascia that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The 22 procedure codes are listed in the following table.
The requestor stated that procedure codes that describe the open extirpation of matter from the subcutaneous tissue and fascia should be designated as O.R. procedures because these procedures are performed through open incisions with direct visualization of subcutaneous tissue and fascia in the operating room under general anesthesia. The requestor noted procedure codes that describe the open drainage of subcutaneous tissue and fascia and use comparable resources are currently designated as O.R. procedures. The requestor noted that root operation “Drainage” is assigned when fluid is drained; and root operation of “Extrirpation” is assigned when any of the substance evacuated is solid. The requestor stated whether the evacuated substance is fluid, gelatinous, or solid, a procedure involving an open incision with direct visualization of subcutaneous tissue and fascia for evacuation of substances should be classified as an O.R. procedure. Therefore, the requestor stated that these procedures should also be recognized as O.R. procedures for purposes of MS–DRG assignment.

In the ICD–10 MS–DRG Definitions Manual Version 38.1, the 22 ICD–10–PCS procedure codes listed in the table are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. While we disagree that drainage procedures are comparable to extirpation procedures, we agree with the requestor that these 22 ICD–10–PCS procedure codes typically require the resources of an operating room. Our clinical advisors state that drainage is the process of taking out, or letting out, fluids and/or gases from a body part and is typically performed for indications such as abscess, infection, and other systemic conditions. In contrast, extirpation procedures are performed for a wider range of indications because the solid matter removed may be an abnormal byproduct of a biological function or a retained foreign body. Therefore, to the FY 2022 ICD–10 MS–DRG Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index, we are proposing to add the 22 ICD–10–PCS listed previously as O.R. procedures assigned to MS–DRGs 579, 580 and 581 (Other Skin, Subcutaneous Tissue and Breast Procedures, with MCC, with CC, and without CC/MCC, respectively) in MDC 09 (Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast) and MS–DRGs 907, 908, and 909 (Other O.R. Procedures for Injuries with MCC, with CC, and without CC/MCC, respectively) in MDC 21 (Injuries, Poisonings and Toxic Effects of Drugs).

(13) Open Revision and Removal of Devices From Subcutaneous Tissue and Fascia

One requestor identified six ICD–10–PCS procedure codes describing open revision and removal of neurostimulator generators, monitoring devices, and totally implantable vascular access devices (TIVADs) procedures that are not currently designated as O.R. procedures for purposes of MS–DRG assignment. The six procedure codes are listed in the following table.
The requestor stated that although removal of these devices is often performed in outpatient surgery, device complications can require removal or revision during inpatient hospitalizations. The requestor indicated it is reasonable for these open procedures to be designated as O.R. procedures to compensate for operating room resources during such inpatient stays.

Our clinical advisors reviewed this request and do not agree that these procedures warrant an O.R. designation. They noted that these procedures are generally performed in the outpatient setting and when performed during a hospitalization, it is typically in conjunction with another O.R. procedure. Therefore, we are proposing to maintain the current non-O.R. designation for procedure codes 0JPT0MZ, 0JPT02Z, 0JPT0WZ, 0JWT0MZ, 0JWT0WZ, and 0JWT03Z for FY 2022.

(14) Open Insertion of Feeding Device

One requestor identified ICD–10–PCS procedure code 0DHA0UZ (Insertion of feeding device into jejunum, open approach) that the requestor stated is currently not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor noted comparable procedure code 0DH60UZ (Insertion of feeding device into stomach, open approach) is currently designated as an O.R. procedure. Therefore, the requestor stated that procedure code 0DHA0UZ should also be recognized as an O.R. procedure for purposes of MS–DRG assignment.

Our analysis of this issue confirmed that in the ICD–10–MS–DRGs Version 38.1 Definitions Manual, for purposes of MS–DRG assignment, 0DHA0UZ is recognized as a non-O.R. procedure and 0DH60UZ is currently recognized as an O.R. procedure. In reviewing this request, we also identified the following four related codes:

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0DH50UZ</td>
<td>Insertion of feeding device into esophagus, open approach</td>
</tr>
<tr>
<td>0DH80UZ</td>
<td>Insertion of feeding device into small intestine, open approach</td>
</tr>
<tr>
<td>0DH90UZ</td>
<td>Insertion of feeding device into duodenum, open approach</td>
</tr>
<tr>
<td>0DBH0UZ</td>
<td>Insertion of feeding device into ileum, open approach</td>
</tr>
</tbody>
</table>

In the ICD–10–MS–DRGs Version 38.1, these four ICD–10–PCS codes are currently recognized as non-O.R. procedure for purposes of MS–DRG assignment. While we agree with the requestor that procedures describing the open insertion of a feeding device into the jejunum are comparable to procedures describing the open insertion of a feeding device into the stomach, we do not agree that these procedures should be designated as O.R. procedures. Our clinical advisors state the procedures that describe the open insertion of a feeding device into the jejunum or the stomach should instead have the same designation as the related ICD–10–PCS procedure codes that describe the open insertion of a feeding device into the esophagus, small intestine, duodenum and ileum that are currently designated as non-O.R. procedures.

With advancements in procedural techniques, feeding devices are most commonly placed using a percutaneous endoscopic approach. Our clinical advisors state feeding devices are usually not placed using an open surgical approach; this approach is...
generally only used if the patient requires another surgical procedure at the same time. When placed at the same time as another surgical procedure, our clinical advisors state the surgical procedure, as the main determinant of resource use for those cases, should drive the MS–DRG assignment, not the procedure that describes the open insertion of a feeding device. For these reasons, our clinical advisors state procedures that describe the open insertion of a feeding device in the gastrointestinal system should all have the same non-O.R. designation in the ICD–10 MS–DRGs Version 39 for coherence.

Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure code 0DHA0UZ. We are also proposing to remove ICD–10–PCS procedure code 0DH60UZ from the FY 2022 ICD–10 MS–DRG Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as an O.R. procedure. Under this proposal, this procedure would no longer impact MS–DRG assignment.

(15) Laparoscopic Insertion of Feeding Tube

One requestor identified ICD–10–PCS procedure codes 0DH64UZ (Insertion of feeding device into stomach, percutaneous endoscopic approach) and 0DHA4UZ (Insertion of feeding device into jejunum, percutaneous endoscopic approach) that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The requestor stated the procedures describing the percutaneous endoscopic insertion of a feeding device into the stomach or the jejunum should be designated as O.R. procedures because these procedures are performed in the operating room under general anesthesia. The requestor stated all laparoscopic procedures, regardless if they are diagnostic or therapeutic, should be classified as O.R. procedures to compensate for operating room resources.

Our analysis of this issue confirmed that in the ICD–10 MS–DRG Version 38.1 Definitions Manual, 0DH64UZ and 0DHA4UZ are currently designated as non-O.R. procedures for purposes of MS–DRG assignment. In reviewing this request, we also identified the following four related codes:

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0DH54UZ</td>
<td>Insertion of feeding device into esophagus, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0DHF4UZ</td>
<td>Insertion of feeding device into small intestine, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0DHA4UZ</td>
<td>Insertion of feeding device into duodenum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0DHB4UZ</td>
<td>Insertion of feeding device into ileum, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

In the ICD–10 MS–DRGs Version 38.1, these four ICD–10–PCS codes are currently recognized as non-O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors reviewed this request and do not agree that unilaterally all laparoscopic procedures should be designated as O.R. procedures. While the procedural approach is an important consideration in the designation of a procedure, there are other clinical factors such as the site of procedure, the procedure complexity, and resource utilization that should also be considered. In this regard, our clinical advisors indicated that codes 0DH64UZ and 0DHA4UZ describing the percutaneous endoscopic insertion of a feeding device into the stomach or the jejunum, do not require the resources of an operating room, are not surgical in nature, and are generally performed in the outpatient setting. The percutaneous endoscopic insertion of a feeding device also does not require general anesthesia. As opposed to being rendered unconscious, patients can receive a local anesthetic (usually a lidocaine spray), an intravenous (IV) pain reliever, and a mild sedative if needed. Patients receiving these devices usually return home the same day after placement, unless they are in the hospital for treatment of another condition.

Our clinical advisors state the percutaneous endoscopic insertion of a feeding device into the stomach or the jejunum is comparable to the related ICD–10–PCS procedure codes that describe the insertion of feeding devices of other gastrointestinal system body parts that are currently designated as non-O.R. procedures. Our clinical advisors believe all procedures that describe the percutaneous endoscopic insertion of a feeding device in the gastrointestinal system should continue to have the same non-O.R. designation in the ICD–10 MS–DRGs Version 39 for coherence. Therefore, for the reasons discussed, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 0DH64UZ and 0DHA4UZ.

(16) Endoscopic Fragmentation and Extirpation of Matter of Urinary Tract

One requestor sent two separate but related requests related to endoscopic procedures performed in the urinary system. With regard to the first request, the requestor identified six ICD–10–PCS procedure codes that describe endoscopic fragmentation in the kidney pelvis, ureter, bladder, and bladder neck that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. The six procedure codes are listed in the following table.
The requestor stated that these procedures should be designated as O.R. procedures because procedures such as the endoscopic fragmentation of calculi within the kidney pelvis, ureter, bladder, and bladder neck are performed in the operating room under anesthesia. The requestor stated that procedures that describe the endoscopic extirpation of calculi from the kidney pelvis or ureter use comparable resources, and are designated as O.R. procedures. Therefore, the requestor asserted it is reasonable that procedure codes that describe endoscopic fragmentation in kidney pelvis, ureter, bladder, and bladder neck also be designated as O.R. procedures.

In the ICD-10 MS-DRGs Definitions Manual Version 38.1, procedure codes 0TF38ZZ, 0TF48ZZ, 0TF68ZZ, 0TF78ZZ, 0TFB8ZZ, and 0TFC8ZZ are designated as non-O.R. procedures for purposes of MS-DRG assignment. Our clinical advisors reviewed this issue and disagree that procedures describing the endoscopic fragmentation of calculi within the kidney pelvis, ureter, bladder, and bladder neck are typically performed in the operating room. In endoscopic fragmentation procedures in the kidney pelvis, ureter, bladder, and bladder neck, the scope is passed through a natural or artificial orifice. The procedure is not surgical in nature and involves no skin incisions. With advancements in scope size, deflection capabilities, video imaging, and instrumentation, many patients now have these endoscopic urinary procedures performed in an outpatient setting, instead of the inpatient setting. Therefore, we are proposing to maintain the current non-O.R. designation of ICD-10-PCS procedure codes 0TF38ZZ, 0TF48ZZ, 0TF68ZZ, 0TF78ZZ, 0TFB8ZZ, and 0TFC8ZZ.

In the second request, the requestor also identified two ICD-10-PCS procedure codes that describe endoscopic extirpation of matter from the bladder and bladder neck that the requestor stated are also currently not recognized as O.R. procedures for purposes of MS-DRG assignment. The two procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0TCB8ZZ</td>
<td>Exirpation of matter from bladder via natural or artificial opening, endoscopic</td>
</tr>
<tr>
<td>0TCC8ZZ</td>
<td>Exirpation of matter from bladder neck via natural or artificial opening, endoscopic</td>
</tr>
</tbody>
</table>

The requestor stated that these procedures also should be designated as O.R. procedures because they performed in the operating room under anesthesia.

In the ICD-10 MS-DRGs Definitions Manual Version 38.1, procedure codes 0TCB8ZZ and 0TCC8ZZ are currently designated as a non-O.R. procedure for purposes of MS-DRG assignment. To review the request to designate 0TCB8ZZ and 0TCC8ZZ as O.R. procedures and in response to the requestor's suggestion that resource consumption is comparable in procedures describing endoscopic fragmentation in the urinary system and procedures describing the endoscopic extirpation in the urinary system, we examined the following procedure codes:
In the ICD–10 MS–DRG Version 38.1 Definitions Manual, these six ICD–10–PCS procedure codes are currently recognized as O.R. procedures for purposes of MS–DRG assignment. Our clinical advisors indicated that these procedures are not surgical in nature. In endoscopic extirpation procedures, the scope enters the urinary tract through the urethra, which is the tube that carries urine out of the body, or through an artificial orifice. Our clinical advisors state the urinary system is one conduit that the requestor stated is not the focus of the admission when it is performed. Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10 MS–DRGs Version 39 for coherence.

Therefore, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure codes 0TC08ZZ and 0TC18ZZ. We are also proposing to remove ICD–10–PCS procedure codes 0TC08ZZ, 0TC18ZZ, 0TC38ZZ, 0TC48ZZ, 0TC68ZZ, and 0TC78ZZ from the FY 2022 ICD–10 MS–DRG Version 39 Definitions Manual in Appendix E—Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures. Under this proposal, these procedures would no longer impact MS–DRG assignment.

(17) Endoscopic Removal of Ureteral Stent

One requestor identified ICD–10–PCS procedure code 0TP98DZ (Removal of intraluminal device from ureter, via natural or artificial opening endoscopic) that the requestor stated is not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor suggested that this procedure warrants an O.R. designation because the procedure code describes a procedure that is performed in the operating room with anesthesia. The requestor stated that while most ureteral stents can be removed by string, some complicated cases require endoscopic removal using forceps in the operating room under general anesthesia and may be performed during inpatient stays precipitated by severe urinary tract infection, sepsis, or urinary obstructions. The requestor asserted that procedure codes for insertion of ureteral stent(s) via a ureteroscopic, endoscopic approach have been justifiably designated as O.R. procedures because they are performed in the O.R. under anesthesia. Therefore, the requestor suggested it is reasonable for endoscopic removal of the stent to be designated with OR procedure status to compensate for operating room resources and anesthesia.

Our clinical advisors reviewed this procedure and do not agree that it warrants an O.R. designation. They noted that this procedure typically does not require hospitalization and is generally not the reason for the patient’s admission since it is often performed in connection with another O.R. procedure when it is performed. Therefore, we are proposing to maintain the current non-O.R. designation for procedure code 0TP98DZ for FY 2022.

(18) Endoscopic/Transorifice Inspection of Ureter

One requestor identified ICD–10–PCS procedure code 0TJ96ZZ (Inspection of ureter, via natural or artificial opening endoscopic), that describes procedures involving endoscopic viewing of the ureter that the requestor stated is currently not recognized as an O.R. procedure for purposes of MS–DRG assignment.

The requestor stated this ureteroscopy procedure is performed in the operating room with anesthesia. According to the requestor, the inspection of ureter procedure code is assigned when obstruction is found during the ureteroscopy and procedures to break up (fragmentation), remove calculi (extirpation), or place a ureteral stent cannot be performed.

Our clinical advisors reviewed this procedure and disagree that it warrants an O.R. designation. They noted that this procedure typically does not require hospitalization and is generally not the reason for the patient’s admission since it is often performed in connection with another O.R. procedure when it is performed. Therefore, we are proposing to maintain the current non-O.R. designation for procedure code 0TJ96ZZ for FY 2022.

(19) Endoscopic Biopsy of Ureter and Kidney

One requestor identified six ICD–10–PCS procedure codes that describe endoscopic biopsy procedures performed on the ureter and kidney structures that the requestor stated are currently not recognized as O.R. procedures for purposes of MS–DRG assignment. According to the requestor, regardless of whether it is a diagnostic or therapeutic procedure, these procedures should be designated as O.R. procedures because the procedures utilize operating room, anesthesia and recovery room resources. The requestor stated that after the surgeon places the scope into the bladder that ureteral orifices must be identified and instruments carefully navigated to obtain excisional biopsies from within the ureter or further within the kidney.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0TC08ZZ</td>
<td>Extirpation of matter from right kidney, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0TC18ZZ</td>
<td>Extirpation of matter from left kidney, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0TC38ZZ</td>
<td>Extirpation of matter from right kidney pelvis, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0TC48ZZ</td>
<td>Extirpation of matter from left kidney pelvis, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0TC68ZZ</td>
<td>Extirpation of matter from right ureter, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0TC78ZZ</td>
<td>Extirpation of matter from left ureter, via natural or artificial opening endoscopic</td>
</tr>
</tbody>
</table>
The six procedure codes are listed in the following table.

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0TB08ZX</td>
<td>Excision of right kidney, via natural or artificial opening, endoscopic, diagnostic</td>
</tr>
<tr>
<td>0TB18ZX</td>
<td>Excision of left kidney, via natural or artificial opening, endoscopic, diagnostic</td>
</tr>
<tr>
<td>0TB38ZX</td>
<td>Excision of right kidney pelvis, via natural or artificial opening, endoscopic, diagnostic</td>
</tr>
<tr>
<td>0TB48ZX</td>
<td>Excision of left kidney pelvis, via natural or artificial opening, endoscopic, diagnostic</td>
</tr>
<tr>
<td>0TB68ZX</td>
<td>Excision of right ureter, via natural or artificial opening, endoscopic, diagnostic</td>
</tr>
<tr>
<td>0TB78ZX</td>
<td>Excision of left ureter, via natural or artificial opening, endoscopic, diagnostic</td>
</tr>
</tbody>
</table>

We note that under the ICD–10–PCS procedure classification, biopsy procedures are identified by the 7th digit qualifier value “diagnostic” in the code description.

Our clinical advisors do not agree that endoscopic biopsy procedures performed on the ureter and kidney structures warrant an O.R. designation. They stated these procedures are typically not the focus for the patient’s admission and are frequently performed in conjunction with another O.R. procedure. Therefore, we are proposing to maintain the current non-O.R. designation for procedure codes 0TB08ZX, 0TB18ZX, 0TB38ZX, 0TB48ZX, 0TB68ZX, and 0TB78ZX for FY 2022.

(20) Transorifice Insertion of Ureteral Stent

One requestor identified three ICD–10–PCS procedure codes that the requestor stated are not recognized as O.R. procedures for purposes of MS–DRG assignment. The requestor suggested that the procedure described by these procedure codes warrants an O.R. designation because it involves the insertion of an indwelling ureteral stent through a nephrostomy with image-guidance in the interventional radiology suite. According to the requestor, image-guided technology now allows placement of ureteral stents through nephrostomy tracts. The requestor stated this procedure may or may not be performed in the operating room, however, it involves placement of device(s), interventional radiology resources, sedation, and continuous monitoring of vital signs. The three procedure codes are shown in the following table.

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0T767DZ</td>
<td>Dilation of right ureter with intraluminal device, via natural or artificial opening</td>
</tr>
<tr>
<td>0T777DZ</td>
<td>Dilation of left ureter with intraluminal device, via natural or artificial opening</td>
</tr>
<tr>
<td>0T787DZ</td>
<td>Dilation of bilateral ureters with intraluminal device, via natural or artificial opening</td>
</tr>
</tbody>
</table>

Our clinical advisors reviewed this request and do not agree that this procedure warrants an O.R. designation. They noted that this procedure is not surgical in nature, does not require the resources of an operating room and is not a technically complex procedure requiring increased hospital resources. Therefore, we are proposing to maintain the current non-O.R. designation for procedure codes 0T767DZ, 0T777DZ, and 0T787DZ for FY 2022.

(21) Percutaneous Insertion of Ureteral Stent

One requestor identified three ICD–10–PCS procedure codes that the requestor stated are not recognized as O.R. procedures for purposes of MS–DRG assignment. The requestor suggested that the procedure described by these procedure codes warrants an O.R. designation because the procedure is typically performed following a failed ureteral stent insertion procedure in the operating room, which can only be reported as a cystoscopy or ureteroscopy, neither of which are designated as O.R. procedures. According to the requestor, percutaneous ureteral stenting through the abdominal wall is subsequently performed in an interventional radiology suite with image-guidance, sedation, and continuous vital sign monitoring. The three procedure codes are shown in the following table.

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0T763DZ</td>
<td>Dilation of right ureter with intraluminal device, percutaneous approach</td>
</tr>
<tr>
<td>0T773DZ</td>
<td>Dilation of left ureter with intraluminal device, percutaneous approach</td>
</tr>
<tr>
<td>0T783DZ</td>
<td>Dilation of bilateral ureters with intraluminal device, percutaneous approach</td>
</tr>
</tbody>
</table>
Our clinical advisors reviewed this request and do not agree that the procedure warrants an O.R. designation. They noted that this procedure is not surgical in nature, does not involve technical complexity or require the resources of an operating room. Therefore, we are proposing to maintain the current non-O.R. designation for procedure codes 0T763DZ, 0T773DZ, and 0T783DZ for FY 2022.

(22) Endoscopic Dilation of Urethra

One requestor identified ICD–10–PCS procedure code 0T7D8DZ (Dilation of urethra with intraluminal device, via natural or artificial opening endoscopic) that the requestor stated is not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor suggested that this procedure warrants an O.R. designation because the procedure codes describes a procedure that utilizes the UroLift® System, a minimally invasive technology to treat lower urinary tract symptoms (LUTS) due to benign prostatic hyperplasia (BPH). According to the requestor, the technology is placed endoscopically within the prostatic urethra in the operating room under anesthesia.

Our clinical advisors reviewed this request and do not agree that the procedure warrants an O.R. designation. They noted that this procedure is performed without incision, resection or thermal injury to the prostate and is primarily performed in the outpatient setting. It is generally not the cause for the patient’s admission and utilization of resources when it is performed. Therefore, we are proposing to maintain the current non-O.R. designation for procedure code 0077D8DZ for FY 2022.

(23) Open Repair of Scrotum

One requestor identified ICD–10–PCS procedure code 0VQ50ZZ (Repair scrotum, open approach) that the requestor stated is not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor suggested that this procedure warrants an O.R. designation because it involves repair of scrotal tissue deeper than the skin with direct visualization and utilizes general anesthesia in the operating room.

Our clinical advisors do not agree that open repair of the scrotum merits an O.R. designation. They stated this procedure would not typically require the resources of an operating room and would generally not be a contributing factor impacting hospital resource use during the patient’s admission when it is performed. Therefore, we are proposing to maintain the current non-O.R. designation for procedure code 0VQ50ZZ for FY 2022.

(24) Open Drainage of Vestibular Gland

One requestor identified ICD–10–PCS procedure code 0U9L0ZZ (Drainage of vestibular gland, open approach) that describes a procedure commonly performed for the treatment of an abscess that the requestor stated is performed in the operating room under general anesthesia and therefore warrants an O.R. designation. The requestor stated this procedure is comparable to the procedure described by procedure code 0UBL0ZZ (Excision of vestibular gland, open approach) which is currently designated as an O.R. procedure.

During our review of procedure code 0U9L0ZZ, we also examined procedure codes 0U9L0ZX (Drainage of vestibular gland, open approach, diagnostic), 0U9L0XZ (Drainage of vestibular gland, external approach, diagnostic), and 0UBL0ZZ. Our review of procedure code 0U9L0ZZ (Drainage of urethra, open approach) because it represents the male equivalent of the female procedure described by procedure code 0U9L0ZZ.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure codes 0T9D0ZZ, 0U9L0ZX, 0U9LXZX, and 0UBL0ZZ are currently designated as O.R. procedures, however, procedure code 0U9L0ZZ is not recognized as an O.R. procedure for purposes of MS–DRG assignment. We examined procedure code 0U9L0ZZ and do not believe this drainage procedure warrants an O.R. designation, nor do we agree that this drainage of the vestibular gland procedure (0U9L0ZZ) is comparable to an excision of the vestibular gland procedure (0UBL0ZZ), which is currently designated as an O.R. procedure.

In the ICD–10–PCS classification, drainage is defined as taking or letting out fluids and/or gases from a body part and incision is defined as cutting out or off, without replacement, a portion of a body part. Therefore, the classification specifically defines and distinguishes the underlying objectives of each distinct procedure. Our clinical advisors stated a drainage procedure is frequently performed in the outpatient setting and is generally not the cause for the patient’s admission and utilization of resources when it is performed. Drainage of the vestibular gland, also known as Bartholin’s glands, is typically indicated when a cyst or abscess is present and may or may not involve the placement of a Word catheter. Conversely, excision of the vestibular gland is not considered an office-based procedure and is generally reserved for a vulvar mass or for patients who have not responded to more conservative attempts to create a drainage tract. In addition, after review, our clinical advisors recommended changing the O.R. status for procedure codes 0U9L0ZX and 0U9LXZX from the FY 2022 ICD–10 MS–DRGs Version 39 Definitions Manual in Appendix E– Operating Room Procedures and Procedure Code/MS–DRG Index as O.R. procedures. Under this proposal, these procedure codes would no longer impact MS–DRG assignment. We refer the reader to section II.D.10 of the preamble of this proposed rule for further discussion related to procedure code 0T9D0ZZ.

(25) Transvaginal Repair of Vagina

One requestor identified ICD–10–PCS procedure code 0UG7ZZ (Repair vagina, via natural or artificial opening) that the requestor stated is currently not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor stated that procedures described by this code such as the non-obstetric transvaginal repair of the vaginal cuff and the non-obstetric transvaginal repair of vaginal lacerations should be designated as O.R. procedures because these procedures are performed in the operating room under general anesthesia. The requestor noted procedure codes 0USG7ZZ (Reposition vagina, via natural or artificial opening), 0UBG7ZZ (Excision of vagina, via natural or artificial opening), and 0UG6ZZ (Repair vagina, via natural or artificial opening endoscopic) are currently designated as O.R. procedures, therefore procedure code 0UG7ZZ should also be recognized as an O.R. procedure for purposes of MS–DRG assignment.

In the ICD–10 MS–DRGs Definitions Manual Version 38.1, procedure code 0UG7ZZ is currently designated as a non-O.R. procedure for purposes of MS–DRG assignment. Our clinical advisors reviewed this issue and disagree that a correlation can be made between procedures described as the transvaginal repair of the vagina and the procedures described by ICD–10–PCS codes 0USG7ZZ, 0UBG7ZZ, and 0UG6ZZ. The root operation “repair” represents a broad range of procedures for restoring the anatomic structure of a body part such as suture of lacerations, while the root operations “reposition,” and “excision” define procedures with more...
distinct objectives. Also the approach "via natural or artificial opening", for example, transvaginal, is defined as the entry of instrumentation through a natural or artificial external opening to reach the site of the procedure while the "via natural or artificial opening endoscopic approach" is defined as the entry of instrumentation (for example a scope) through a natural or artificial external opening to both reach and visualize the site of the procedure. Our clinical advisors also disagree that procedures described as the transvaginal repair of the vagina are typically performed in the operating room under general anesthesia. Our clinical advisors state transvaginal repair can be performed using regional anesthesia, used to numb only the area of the body that requires surgery instead of rendering the patient unconscious. Therefore, for the reasons described, we are proposing to maintain the current non-O.R. designation of ICD–10–PCS procedure code 0UQG7ZZ.

(26) Percutaneous Tunneled Vascular Access Devices

One requestor identified ten ICD–10–PCS procedure codes describing percutaneous insertion of tunneled vascular access devices into various body parts that the requestor stated are not recognized as an O.R. procedure for purposes of MS–DRG assignment. The requestor suggested that these procedures warrant an O.R. designation because they are placed in an interventional radiology suite or in the operating room under anesthesia. The ten procedure codes are shown in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0JH63XZ</td>
<td>Insertion of tunneled vascular access device into chest subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JH83XZ</td>
<td>Insertion of tunneled vascular access device into abdomen subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHD3XZ</td>
<td>Insertion of tunneled vascular access device into right upper arm subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHF3XZ</td>
<td>Insertion of tunneled vascular access device into left upper arm subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHG3XZ</td>
<td>Insertion of tunneled vascular access device into right lower arm subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHH3XZ</td>
<td>Insertion of tunneled vascular access device into left lower arm subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHL3XZ</td>
<td>Insertion of tunneled vascular access device into right upper leg subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHM3XZ</td>
<td>Insertion of tunneled vascular access device into left upper leg subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHN3XZ</td>
<td>Insertion of tunneled vascular access device into right lower leg subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
<tr>
<td>0JHP3XZ</td>
<td>Insertion of tunneled vascular access device into left lower leg subcutaneous tissue and fascia, percutaneous approach</td>
</tr>
</tbody>
</table>

According to the requestor, it does not make sense for tunneled vascular access devices to group to procedural MS–DRGs in limited circumstances as is the case currently with the logic in MDC 9 (Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast) and MDC 11 (Diseases and Disorders of the Kidney and Urinary Tract). The requestor stated that these procedures should be grouping to procedural MS–DRGs across all MDCs. We note that we have addressed requests related to these procedures in previous rulemaking (85 FR 58511 through 58517). Our clinical advisors reviewed this request and disagree that procedures performed to insert a tunneled vascular access device should group to procedural MS–DRGs across all MDCs. They stated that these percutaneous procedures are generally performed in the outpatient setting and when performed during a hospitalization, they are frequently performed in combination with another O.R. procedure. Therefore, we are proposing to maintain the current non-O.R. status for the ten procedure codes listed previously for FY 2022.

12. Proposed Changes to the MS–DRG Diagnosis Codes for FY 2022

a. Background of the CC List and the CC Exclusions List

Under the IPPS MS–DRG classification system, we have developed a standard list of diagnoses that are considered CCs. Historically, we developed this list using physician panels that classified each diagnosis code based on whether the diagnosis, when present as a secondary condition, would be considered a substantial complication or comorbidity. A substantial complication or comorbidity was defined as a condition that, because
of its presence with a specific principal diagnosis, would cause an increase in the length-of-stay by at least 1 day in at least 75 percent of the patients. However, depending on the principal diagnosis of the patient, some diagnoses on the basic list of complications and comorbidities may be excluded if they are closely related to the principal diagnosis. In FY 2008, we evaluated each diagnosis code to determine its impact on resource use and to determine the most appropriate CC subclassification (NonCC, CC, or MCC) assignment. We refer readers to sections II.D.2, and 3. of the preamble of the FY 2008 IPPS final rule with comment period for a discussion of the refinement of CCs in relation to the MS–DRGs we adopted for FY 2008 (72 FR 47152 through 47171).

b. Overview of Comprehensive CC/MCC Analysis

In the FY 2008 IPPS/LTCH PPS final rule (72 FR 47150), we described our process for establishing three different levels of CC severity into which we would subdivide the diagnosis codes. The categorization of diagnoses as a MCC, a CC, or a NonCC was accomplished using an iterative approach in which each diagnosis was evaluated to determine the extent to which its presence as a secondary diagnosis resulted in increased hospital resource use. We refer readers to the FY 2008 IPPS/LTCH PPS final rule (72 FR 47150) for a complete discussion of our approach. Since the comprehensive analysis was completed for FY 2008, we have evaluated diagnosis codes individually when assigning severity levels to new codes and when receiving requests to change the severity level of specific diagnosis codes.

We noted in the FY 2020 IPPS/LTCH PPS proposed rule (84 FR 19235 through 19246) that with the transition to ICD–10–CM and the significant changes that have occurred to diagnosis codes since the FY 2008 review, we believed it was necessary to conduct a comprehensive analysis once again. Based on this analysis, we proposed changes to the severity level designations for 1,492 ICD–10–CM diagnosis codes and invited public comments on those proposals. As summarized in the FY 2020 IPPS/LTCH PPS final rule, many commenters expressed concern with the proposed severity level designation changes overall and recommended that CMS conduct further analysis prior to finalizing any proposals. After careful consideration of public comments we received, as discussed further in the FY 2020 final rule, we generally did not finalize our proposed changes to the severity designations for the ICD–10–CM diagnosis codes, other than the changes to the severity level designations for the diagnosis codes in category Z16– (Resistance to antimicrobial drugs) from a NonCC to a CC. We stated that postponing adoption of the proposed comprehensive changes in the severity level designations would allow further opportunity to provide additional background to the public on the methodology utilized and clinical rationale applied across diagnostic categories to assist the public in its review. We refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42150 through 42152) for a complete discussion of our response to public comments regarding the proposed severity level designation changes for FY 2020.

We discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58550 through 58554) that we plan to continue a comprehensive CC/MCC analysis, using a combination of mathematical analysis of claims data as discussed in the FY 2020 IPPS/LTCH PPS proposed rule (84 FR 19235) and the application of nine guiding principles and plan to present the findings and proposals in future rulemaking. The nine guiding principles are as follows:

- Represents end of life/near death or has reached an advanced stage associated with systemic physiologic decompensation and debility.
- Denotes organ system instability or failure.
- Involves a chronic illness with susceptibility to exacerbations or abrupt decline.
- Serves as a marker for advanced disease states across multiple different comorbid conditions.
- Reflects systemic impact.
- Post-operative/post-procedure condition/complication impacting recovery.
- Typically requires higher level of care (that is, intensive monitoring, greater number of caregivers, additional testing, intensive care unit care, extended length of stay).
- Impedes patient cooperation and/or management of care.
- Recent (last 10 years) change in best practice, or in practice guidelines and review of the extent to which these changes have led to concomitant changes in expected resource use.

We refer readers to the FY 2021 IPPS/LTCH PPS final rule for a complete discussion of our response to public comments regarding the nine guiding principles, as well as other possible ways we can incorporate meaningful indicators of clinical severity. When providing additional feedback or comments, we encourage the public to provide a detailed explanation of how applying a suggested concept or principle would ensure that the severity designation appropriately reflects resource use for any diagnosis code.

For new diagnosis codes approved for FY 2022, consistent with our annual process for designating a severity level (MCC, CC or NonCC) for new diagnosis codes, we first review the ICD–10–CM diagnosis code designation, followed by review and consideration of other factors that may be relevant to the severity level designation, including the severity of illness, treatment difficulty, complexity of service and the resources utilized in the diagnosis and/or treatment of the condition. We note that this process does not automatically result in the new diagnosis code having the same designation as the predecessor code. We refer the reader to II.D.13 of this proposed rule for the discussion of the proposed changes to the ICD–10–CM and ICD–10–PCS coding systems for FY 2022.

For this FY 2022 IPPS/LTCH PPS proposed rule, we received several requests to change the severity level designations of specific ICD–10–CM diagnosis codes. Our clinical advisors believe it is appropriate to consider these requests in connection with our continued comprehensive CC/MCC analysis in future rulemaking, rather than proposing to change the designation of individual ICD–10–CM diagnosis codes at this time. As stated earlier in this section, we plan to continue a comprehensive CC/MCC analysis, using a combination of mathematical analysis of claims data and the application of nine guiding principles. We will consider these individual requests received for changes to severity level designations as we continue our comprehensive CC/MCC analysis and will provide more detail in future rulemaking.

c. Potential Change to Severity Level Designation for Unspecified Diagnosis Codes for FY 2022

For this FY 2022 IPPS/LTCH PPS proposed rule, as another interval step as we continue to address the comprehensive review of the severity designations of ICD–10–CM diagnosis codes in which we have been engaged over the past two years, we are requesting public comments on a potential change to the severity level designations for “unspecified” ICD–10–CM diagnosis codes that we are considering adopting for FY 2022.
Specifically, we are considering changing the severity level designation of all “unspecified” diagnosis codes to a NonCC where there are other codes available in that code subcategory that further specify the anatomic site, effective for FY 2022, after consideration of the public comments we receive in response to this proposed rule.

According to the ICD–10–CM Official Guidelines for Coding and Reporting, codes titled “unspecified” are for use when the information in the medical record is insufficient to assign a more specific code. In our review of severity level designation of the codes in the ICD–10–CM classification, we noted 3,490 “unspecified” diagnosis codes designated as either CC or MCC, where there are other codes available in that code subcategory that further specify the anatomic site with an equivalent severity level designation. For example, ICD–10–CM code L89.003 (Pressure ulcer of unspecified elbow, stage 3) is currently designated as a MCC. In the same code subcategory of L89.0 (Pressure ulcer of elbow), ICD–10–CM codes L89.013 (Pressure ulcer of right elbow, stage 3) and code L89.023 (Pressure ulcer of left elbow, stage 3) are also designated as MCCs.

In the FY 2008 IPPS/LTCH PPS final rule (72 FR 47159), we described the categorization of diagnoses as an MCC, a CC, or a NonCC, accomplished using an iterative approach in which each diagnosis was evaluated to determine the extent to which its presence as a secondary diagnosis resulted in increased hospital resource use. As such, the designation of CC or MCC is intended to account for the increased resources required to address a condition as a secondary diagnosis. The usage of “unspecified” diagnosis codes where there are other codes available in that code subcategory that further specify the anatomic site may contribute to and eventually result in less reliable data for researching clinical outcomes. If documentation is not available to code to the highest level of specificity as to the laterality of the condition treated, and an unspecified code is reported by the hospital, it may be harder to quantify in the claims data what additional resources were expended to address that condition in terms of requiring clinical evaluation, therapeutic treatment, diagnostic procedures, extended length of hospital stay, increased nursing care and/or monitoring.

As stated previously, we discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58550 through 58554) that we plan to continue a comprehensive CC/MCC analysis, using a combination of mathematical analysis of claims data, and the application of nine guiding principles, and plan to present the findings and proposals in future rulemaking. As patients present with a variety of diagnoses, in examining the secondary diagnoses, we stated we would consider what additional resources are required, that surpasses those that are already being utilized to address the principal diagnosis and/or other secondary diagnoses that might also be present on the claim. The goal of our comprehensive analysis is to create stratification for reimbursing inpatient hospitalization in the fewest amount of categories with the most explanatory power in a clinically cohesive way. We believe more robust claims data would facilitate this effort to determine the impact on resource use and inform our decision-making in determining the most appropriate CC subclass (NonCC, CC, or MCC) assignment for each diagnosis as a secondary diagnosis. As part of this effort, we are soliciting comments on adopting a change to the severity level designation of the 3,490 “unspecified” diagnosis codes currently designated as either CC or MCC, where there are other codes available in that code subcategory that further specify the anatomic site, to a NonCC for FY 2022.

As discussed in the HIPAA Administrative Simplification: Modification to Medical Data Code Set Standards To Adopt ICD–10–CM and ICD–10–PCS proposed rule (73 FR 49796 through 49803), in proposing the adoption of ICD–10–CM and ICD–10–PCS, we listed that the addition of laterality in ICD–10–CM—specifying which organ or part of the body is involved when the location could be on the right, the left, or could be bilateral, was one of several improvements over ICD–9–CM. We also noted that in comparison to ICD–9–CM, ICD–10–CM diagnosis codes are very specific and that this specificity improves the richness of data for analysis and improves the accuracy of data used for medical research. In the Modifications to Medical Data Code Set Standards To Adopt ICD–10–CM and ICD–10–PCS final rule (74 FR 3328 through 3362), we adopted the ICD–10–CM and ICD–10–PCS as medical data code sets under HIPAA, replacing ICD–9–CM Volumes 1 and 2, and Volume 3 and noted that ICD–10–CM and ICD–10–PCS provide specific diagnosis and treatment information that can improve quality measurable health care encounter and improve the reliability and validity of the coded data.

We believe that changing the severity level for these “unspecified codes” as compared to the more specific codes in the same subcategory recognizing laterality would leverage the additional specificity available under the ICD–10 system, by fostering the reporting of the most specific diagnosis codes supported by the available medical record documentation and clinical knowledge of the patient’s health condition to more accurately reflect each health care encounter and improve the reliability and validity of the coded data. However in consideration of the PHE, and to the extent that some providers may not currently have programs in place that focus on improving documentation, we are requesting public comments on making this change to the severity level designation for these unspecified ICD–10–CM diagnosis codes for FY 2022.

The diagnosis codes for which we are soliciting comments on a change in severity level designation as described in this proposed rule are shown in Table 6P.2a (which is available via the internet on the CMS website at: http://www.cms.hhs.gov/Medicare/Medicare-Fee-for-Serive-Payment/AcutenInpatientPPS/index.html). We note we are also making available the data describing the impact on resource use when reported as a secondary diagnosis for all 3,490 ICD–10–CM unspecified diagnosis codes. While these claims data were not used in our identification of the “unspecified” diagnosis codes for which there are other codes available in the code subcategory that further specify the anatomic site, as mentioned earlier in this section, these data are consistent with data historically used to mathematically measure impact on resource use for secondary diagnoses, and the data which we plan to use in combination with application of the nine guiding principles as we continue a comprehensive CC/MCC analysis. Therefore, we are displaying the data on these unspecified codes in order to facilitate public comment on these potential changes in the severity level designation for these codes.


For further information on the data on the impact on resource use as displayed in Columns F–O and Columns Q–Z, we refer readers to the FY 2008 IPPS/LTCH PPS final rule (72 FR 47159) for a complete discussion of the methodology utilized to mathematically measure the impact on resource use. Also, as discussed in the FY 2021 IPPS/LTCH PPS proposed rule (85 FR 32550), to provide the public with more information on the CC/MCC comprehensive analysis discussed in the FY 2020 IPPS/LTCH PPS proposed and final rules, CMS hosted a listening session on October 8, 2019. The listening session included a review of this methodology utilized to mathematically measure the impact on resource use. We refer readers to https://www.cms.gov/Outreach-and-Education/Outreach/OpenDoorForums/PodcastAndTranscripts.html for the transcript and audio file of the listening session. We also refer readers to https://www.cms.gov/Medicare/MedicareFee-for-Service-Payment/AcuteInpatientPPS/MS-DRG-Classifications-and-Software.html for the supplementary file containing the data describing the impact on resource use of specific ICD–10–CM diagnosis codes when reported as a secondary diagnosis that was made available for the listening session.

This table shows the Version 38.1 ICD–10–CM diagnosis codes by severity level.

<table>
<thead>
<tr>
<th>Current Categorization of CC Codes (Version 38.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Codes</td>
</tr>
<tr>
<td>MCC</td>
</tr>
<tr>
<td>CC</td>
</tr>
<tr>
<td>NonCC</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

We are requesting public comments on a modification to the Version 38.1 severity level subclass assignments for 4.8 percent of the ICD–10–CM diagnosis codes, potentially effective with the Version 39 ICD–10 MS–DRG MCC/CC list. The following table compares the Version 38.1 ICD–10 MS–DRG MCC/CC list and the potential Version 39 ICD–10 MS–DRG MCC/CC list. There are 17,957 ICD–10–CM diagnosis codes on the Version 38.1 MCC/CC lists. These potential MCC/CC severity level changes would reduce the number of diagnosis codes on the MCC/CC lists to 14,467 (2,771+ 11,696).

<table>
<thead>
<tr>
<th>POTENTIAL MCC/CC SUBCLASS MODIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity Level – CC Subclass</td>
</tr>
<tr>
<td>Version 38.1 Severity Level Number of Codes</td>
</tr>
<tr>
<td>MCC</td>
</tr>
<tr>
<td>CC</td>
</tr>
<tr>
<td>NonCC</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

The net result of these potential changes to the Version 39 ICD–10 MS–DRG MCC/CC list would be a decrease of 507 (3,278 – 2,771) codes designated as an MCC, a decrease of 2,983 (14,679 – 11,696) codes designated as a CC, and an increase of 3,490 (58,154 – 54,664) codes designated as a NonCC.

The following table compares the Version 38.1 ICD–10 MS–DRG severity level list and the potential Version 39 ICD–10–CM classification to display how each chapter of ICD–10–CM might be affected by these modifications.

BILLING CODE 4120–01–P
<table>
<thead>
<tr>
<th>ICD-10-CM Chapter</th>
<th>Version 38.1 MCC+CC Subclass, Number of Codes</th>
<th>Potential Version 39 Change to NonCC subclass, Number of Codes</th>
<th>Potential Version 39 Severity Level Number of Codes</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certain infectious and parasitic diseases (A00-B99)</td>
<td>757</td>
<td>0</td>
<td>757</td>
<td>0%</td>
</tr>
<tr>
<td>Neoplasms (C00-D49)</td>
<td>782</td>
<td>31</td>
<td>751</td>
<td>-4.0%</td>
</tr>
<tr>
<td>Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)</td>
<td>142</td>
<td>0</td>
<td>142</td>
<td>0%</td>
</tr>
<tr>
<td>Endocrine, nutritional and metabolic diseases (E00-E89)</td>
<td>246</td>
<td>0</td>
<td>246</td>
<td>0%</td>
</tr>
<tr>
<td>Mental, Behavioral and Neurodevelopmental disorders (F01-F99)</td>
<td>265</td>
<td>0</td>
<td>265</td>
<td>0%</td>
</tr>
<tr>
<td>Diseases of the nervous system (G00-G99)</td>
<td>250</td>
<td>6</td>
<td>244</td>
<td>-2.4%</td>
</tr>
<tr>
<td>Diseases of the eye and adnexa (H00-H59)</td>
<td>259</td>
<td>62</td>
<td>197</td>
<td>-23.9%</td>
</tr>
<tr>
<td>Diseases of the ear and mastoid process (H60-H95)</td>
<td>32</td>
<td>5</td>
<td>27</td>
<td>-15.6%</td>
</tr>
<tr>
<td>Diseases of the circulatory system (I00-I99)</td>
<td>709</td>
<td>58</td>
<td>651</td>
<td>-8.2%</td>
</tr>
<tr>
<td>Diseases of the respiratory system (J00-J99)</td>
<td>160</td>
<td>0</td>
<td>160</td>
<td>0%</td>
</tr>
</tbody>
</table>
As shown in the table, the Diseases of the Musculoskeletal System and Connective Tissue (M00-M99) chapter of ICD-10-CM would have the largest percentage reduction in codes designated as CC/MCC. Twelve chapters would have a zero percentage change to the percentage of codes designated as CC/MCC.

<table>
<thead>
<tr>
<th>Diagnosis Category</th>
<th>Current</th>
<th>Proposed</th>
<th>Change</th>
<th>Percentage Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diseases of the digestive system (K00-K95)</td>
<td>397</td>
<td>397</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Diseases of the skin and subcutaneous tissue (L00-L99)</td>
<td>323</td>
<td>268</td>
<td>55</td>
<td>-17.0%</td>
</tr>
<tr>
<td>Diseases of the musculoskeletal system and connective tissue (M00-M99)</td>
<td>1,414</td>
<td>1,001</td>
<td>413</td>
<td>-29.2%</td>
</tr>
<tr>
<td>Diseases of the genitourinary system (N00-N99)</td>
<td>168</td>
<td>166</td>
<td>2</td>
<td>-1.2%</td>
</tr>
<tr>
<td>Pregnancy, childbirth and the puerperium (O00-O9A)</td>
<td>652</td>
<td>648</td>
<td>4</td>
<td>-0.6%</td>
</tr>
<tr>
<td>Certain conditions originating in the perinatal period (P00-P96)</td>
<td>163</td>
<td>163</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)</td>
<td>252</td>
<td>252</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)</td>
<td>74</td>
<td>74</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Injury, poisoning and certain other consequences of external causes (S00-T88)</td>
<td>10,867</td>
<td>8,013</td>
<td>2,854</td>
<td>-26.3%</td>
</tr>
<tr>
<td>External causes of morbidity (V00-Y99)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Factors influencing health status and contact with health services (Z00-Z99)</td>
<td>44</td>
<td>44</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Codes for special purposes (U00-U85)</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17,957</strong></td>
<td><strong>14,467</strong></td>
<td><strong>3,490</strong></td>
<td><strong>-19.4%</strong></td>
</tr>
</tbody>
</table>

As stated previously, we are requesting public comments on our possible adoption of a change to the severity level designation of these 3,490 “unspecified” diagnosis codes currently designated as either CC or MCC, where there are other codes available in that code subcategory that further specify the anatomic site, to a NonCC, potentially effective with the Version 39 ICD-10 MS-DRG MCC/CC list. As part of this request, we would be interested in comments regarding whether this modification might present operational challenges and how we might otherwise foster the reporting of the most specific diagnosis codes supported by the available medical record documentation and clinical knowledge of the patient’s health condition to more accurately
reflect each health care encounter and improve the reliability and validity of the coded data.

d. Proposed Additions and Deletions to the Diagnosis Code Severity Levels for FY 2022

The following tables identify the proposed additions and deletions to the diagnosis code MCC severity levels list and the proposed additions to the diagnosis code CC severity levels list for FY 2022 and are available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html.

Table 6L.1—Proposed Additions to the MCC List—FY2022;
Table 6L.2—Proposed Deletions to the MCC List—FY2022;
Table 6L.3—Proposed Additions to the CC List FY2022.

e. Proposed CC Exclusions List for FY 2022

In the September 1, 1987 final notice (52 FR 33143) concerning changes to the DRG classification system, we modified the GROUPER logic so that certain diagnoses included on the standard list of CCs would not be considered valid CCs in combination with a particular principal diagnosis. We created the CC Exclusions List for the following reasons: (1) To preclude coding of CCs for closely related conditions; (2) to preclude duplicative or inconsistent coding from being treated as CCs; and (3) to ensure that cases are appropriately classified between the complicated and uncomplicated DRGs in a pair.

In the May 19, 1987 proposed notice (52 FR 18877) and the September 1, 1987 final notice (52 FR 33154), we explained that the excluded secondary diagnoses were established using the following five principles:

- Chronic and acute manifestations of the same condition should not be considered CCs for one another;
- Specific and nonspecific (that is, not otherwise specified (NOS)) diagnosis codes for the same condition should not be considered CCs for one another;
- Codes for the same condition that cannot coexist, such as partial/total, unilateral/bilateral, obstructed/unobstructed, and benign/malignant, should not be considered CCs for one another;
- Codes for the same condition in an anatomically proximal sites should not be considered CCs for one another; and
- Closely related conditions should not be considered CCs for one another.

The creation of the CC Exclusions List was a major project involving hundreds of codes. We have continued to review the remaining CCs to identify additional exclusions and to remove diagnoses from the master list that have been shown not to meet the definition of a CC. We refer readers to the FY 2014 IPPS/LTCPP final rule (78 FR 50541 through 50544) for detailed information regarding revisions that were made to the CC and CC Exclusion Lists under the ICD–9–CM MS–DRGs.

The ICD–10 MS–DRGs Version 38.1 CC Exclusion List is included as Appendix C in the ICD–10 MS–DRG Definitions Manual, which is available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html, and includes two lists identified as Part 1 and Part 2. Part 1 is the list of all diagnosis codes that are defined as a CC or MCC when reported as a secondary diagnosis. For all diagnosis codes on the list, a link is provided to a collection of diagnosis codes which, when reported as the principal diagnosis, would cause the CC or MCC diagnosis to be considered as a NonCC. Part 2 is the list of diagnosis codes designated as a MCC only for patients discharged alive; otherwise, they are assigned as a NonCC.

As discussed in section II.D.12.c. of the preamble of this proposed rule, we are requesting public comments on potential changes to the severity level for 3,490 diagnosis codes describing an “unspecified” anatomic site, from a CC severity level to a NonCC severity level for FY 2022. Table 6L.3a is being made available for readers to review and consider the list of the 3,490 “unspecified” diagnosis codes that are currently included in Part 1 of the CC Exclusions List and the principal diagnosis exclusion category with which they are currently associated. If we were to finalize the potential changes to the severity level for the 3,490 diagnosis codes describing an “unspecified” anatomic site from a CC severity level to a NonCC severity level for FY 2022, we would also finalize the removal of these codes from the CC Exclusions List for FY 2022.

We received three requests related to the CC Exclusions List logic, as we discuss in this section of this proposed rule.

We received a request to review the secondary diagnoses that are excluded as a CC or MCC in the CC Exclusions List logic when any one of the following three diagnosis codes is reported as the principal diagnosis.
According to the requestor, in the ICD–10 MS–DRGs version 37.2 CC Exclusions List logic, the predecessor code for the listed diagnosis codes, diagnosis code O99.89 (Other specified diseases and conditions complicating pregnancy, childbirth and the puerperium) is listed in the collection of principal diagnosis list number 1000; therefore, when a CC or MCC secondary diagnosis associated with that principal diagnosis list describes a condition as occurring in pregnancy, childbirth or the puerperium, the CC Exclusions List logic will render that diagnosis code as a NonCC. The requestor stated that because diagnosis code O99.89 under version 37.2 of the ICD–10 MS–DRGs is now a subcategory under version 38.1 of the ICD–10 MS–DRGs, with three unique diagnosis codes to specify which obstetric stage the patient is in, that further analysis of the new diagnosis codes (O99.891, O99.892, and O99.893) should occur to determine if changes to the collection of principal diagnosis list is warranted. The requestor provided three examples for CMS to review and consider for possible changes to the CC Exclusions List logic.

In the first example, the requestor noted that diagnosis code O72.1 (Other immediate postpartum hemorrhage) is listed as a CC secondary diagnosis associated with the collection of principal diagnosis list number 1000, and that under the ICD–10 MS–DRGs version 38.1 CC Exclusions List logic, the diagnosis listed in principal diagnosis collection 1000 is now diagnosis code O99.893 (Other specified diseases and conditions complicating puerperium). Thus, both diagnosis codes (O72.1 and O99.893) are describing conditions occurring specifically in the postpartum or puerperium period. The postpartum period is defined as the period beginning immediately after delivery and continues for six weeks following delivery. A postpartum complication is any complication occurring within the six-week period. The requestor stated that because diagnosis code O72.1 is assigned for documented postpartum uterine atony with hemorrhage when it occurs immediately following the delivery of the baby and placenta, that CMS should review diagnosis code O99.892 (Other specified diseases and conditions complicating childbirth) and determine if it should be added to the collection of principal diagnosis list number 1000 to cause diagnosis code O72.1 to be considered as a NonCC when diagnosis code O99.892 is reported as the principal diagnosis.

In the second example, the requestor noted that diagnosis code O98.32 (Other infections with a predominantly sexual mode of transmission complicating pregnancy, first trimester), O98.312 (Other infections with a predominantly sexual mode of transmission complicating pregnancy, second trimester), and O98.313 (Other infections with a predominantly sexual mode of transmission complicating pregnancy, third trimester) is associated with principal diagnosis collection number 1012. The requestor also noted that principal diagnosis collection number 1012 does not list diagnosis codes O99.891, O99.892, or O99.893 as a principal diagnosis to exclude the CC secondary diagnosis code O98.32, however, it does list diagnosis codes O98.311 (Other infections with a predominantly sexual mode of transmission complicating pregnancy, first trimester), O98.312 (Other infections with a predominantly sexual mode of transmission complicating pregnancy, second trimester), and O98.313 (Other infections with a predominantly sexual mode of transmission complicating pregnancy, third trimester) as a principal diagnosis to exclude the CC secondary diagnosis code O98.32. The requestor recommended CMS review diagnosis codes O98.32 (Other infections with a predominantly sexual mode of transmission complicating childbirth) and O98.33 (Other infections with a predominantly sexual mode of transmission complicating the puerperium), to determine if diagnosis codes O99.891, O99.892 or O99.893, when reported as a principal diagnosis, should exclude CC secondary diagnosis codes O98.32 and O98.33. Thus, the requestor suggested CMS consider if it is appropriate to add diagnosis code O99.892 to principal diagnosis collection number 4041 to cause diagnosis code O99.892 to be considered as a NonCC when diagnosis code O99.892 is reported as the principal diagnosis.

In the third example, the requestor noted that diagnosis code O87.2 (Hemorrhoids during labor and delivery). The requestor also noted that principal diagnosis collection number 4041 lists diagnosis code O99.893 as a principal diagnosis to exclude the CC diagnosis code O87.2, however, it does not list diagnosis code O99.892. The requestor further noted that the “Includes” note at Category O87 (Venous complications and hemorrhoids in the puerperium) in the FY 2021 ICD–10–CM Tabular List includes “venous complications in labor, delivery and the puerperium”, therefore, diagnosis code O87.2 would also be reported for documented hemorrhoids during labor and delivery. The requestor recommended CMS review diagnosis code O99.892 to determine if, when reported as a principal diagnosis, it should exclude CC diagnosis code O87.2. Thus, the requestor suggested CMS consider if it is appropriate to add diagnosis code O99.892 to principal diagnosis collection number 4041 to cause diagnosis code O99.892 to be considered as a NonCC when diagnosis code O99.892 is reported as the principal diagnosis.

We reviewed diagnosis codes O99.891, O99.892 and O99.893 with respect to the principal diagnosis collection list and because these diagnosis codes are specifically describing “other specified diseases and conditions complicating pregnancy, childbirth, and the puerperium,” respectively, we do not believe that any of these three diagnosis codes, when reported as a principal diagnosis, should exclude any CC secondary diagnosis. In cases where any one of these three diagnosis codes is reported as a principal diagnosis, which are generally anticipated to be rare, it is understood that there is not a more specific diagnosis code available in the classification to report as the principal diagnosis that identifies the underlying or associated cause of the disease or the condition complicating the specific obstetric stage (pregnancy, childbirth, or puerperium), hence the “other specified” in the code title. Specifically, the title of category O99 is “Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium” and there are nine subcategories, each of which is generally associated with a single organ.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O99.891</td>
<td>Other specified diseases and conditions complicating pregnancy</td>
</tr>
<tr>
<td>O99.892</td>
<td>Other specified diseases and conditions complicating childbirth</td>
</tr>
<tr>
<td>O99.893</td>
<td>Other specified diseases and conditions complicating puerperium</td>
</tr>
</tbody>
</table>
The instructional note at category O99 states “use additional code to identify specific condition” and included at each subcategory (O99.0–O99.9) are a range of codes that refer to diagnoses that are associated with the condition in the title of the subcategory that are to be reported in addition to the applicable code within the respective subcategory. For example, at subcategory O99.0 (Anemia complicating pregnancy, childbirth, and the puerperium), the range of associated codes to identify the specific condition (for example, type of anemia) includes conditions in diagnosis code range D50–D64, meaning that when any one of the diagnosis codes under subcategory O99.0 describing anemia complicating a specific obstetric stage (pregnancy, childbirth, or puerperium) is reported, a code within the D50–D64 code range to identify the specific type of anemia would also be expected to be reported when supported by the medical record documentation. It is therefore reasonable to associate the two conditions (one from subcategory O99.0 and one from code range D50–D64) when reported on a claim. However, the same cannot be stated for subcategory O99.8. There is no range of associated codes from which users are instructed to report located at this particular subcategory in addition to the specific code under sub-subcategory O99.89 (Other specified diseases and conditions complicating pregnancy, childbirth and the puerperium). We note that subcategory O99.8 and sub-subcategory O99.89 have the same title. Therefore, when a diagnosis code from other than that sub-subcategory is reported that describes a condition occurring in any one of the obstetric stages (pregnancy, childbirth, or puerperium) it is not clear if the condition can reasonably be associated to correspond to the “other specified diseases and conditions” diagnosis. In addition, the code ranges included at subcategory O99.8 are D00–D48, H00–H95, M00–N99, and Q00–Q99. Consequently, diagnosis codes within those code ranges would be expected to be reported with one of the diagnosis codes under subcategory O99.8 when reported as a principal diagnosis.

In all three of the requestor’s examples, the diagnosis codes provided for CMS to review and consider are located in the “O” code range (O72.1, O98.32, and O87.2) describing the specific trimester of pregnancy that we believe warrant further examination. We are unable to fully evaluate these conditions for FY 2022, therefore, we will continue to analyze for future rulemaking.

For the reasons discussed, we do not believe that any of the three diagnosis codes (O99.891, O99.892, and O99.893), when reported as a principal diagnosis, should exclude any CC secondary diagnosis. Therefore, we are proposing to remove diagnosis codes O99.891, O99.892, and O99.893 from the CC Exclusions List logic principal diagnosis collection lists. Specifically, we are proposing to remove those diagnosis codes from the following principal

### Subcategories within ICD-10-CM Category O99 Other Maternal Diseases Classifiable Elsewhere But Complicating Pregnancy, Childbirth and the Puerperium

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O99.0</td>
<td>Anemia complicating pregnancy, childbirth, and the puerperium</td>
</tr>
<tr>
<td>O99.1</td>
<td>Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.2</td>
<td>Endocrine, nutritional and metabolic diseases complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.3</td>
<td>Mental disorders in diseases of the nervous system complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.4</td>
<td>Diseases of the circulatory system complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.5</td>
<td>Diseases of the respiratory system complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.6</td>
<td>Diseases of the digestive system complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.7</td>
<td>Diseases of the skin and subcutaneous tissue complicating pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>O99.8</td>
<td>Other specified diseases and conditions complicating pregnancy, childbirth and the puerperium</td>
</tr>
</tbody>
</table>
We also received a request to review diagnosis codes describing oxygen dependence, chronic obstructive pulmonary disease with exacerbation, and chronic respiratory failure with regard to assignment in MS–DRG 191 (Chronic Obstructive Pulmonary Disease with CC) and to consider whether any changes to principal diagnosis collection number 0744 in the CC Exclusions List logic are warranted.

The requestor provided diagnosis codes J44.1 (Chronic obstructive pulmonary disease with (acute) exacerbation), J96.11 (Chronic respiratory failure with hypoxia (CC)), and Z99.81 (Dependence on supplemental oxygen) for CMS to review. Specifically, the requestor suggested that if oxygen dependence, by definition, is clinically inherent to chronic respiratory failure, then CMS should consider adding diagnosis code J44.1 to the CC Exclusions List logic principal diagnosis collection list number 0744 and cause diagnosis code J96.11 to be considered as a NonCC when J44.1 is reported as the principal diagnosis.

We reviewed the diagnosis codes and MS–DRG assignment as the requestor suggested. We confirmed that when diagnosis code J44.1 is reported as the principal diagnosis with the CC secondary diagnosis code J96.11, and secondary diagnosis code Z99.81, the resulting MS–DRG assignment is MS–DRG 191. We believe that diagnosis code J96.11 should continue to group as a CC, to the “with CC” MS–DRG 191, when reported as a secondary diagnosis code with diagnosis code J44.1 reported as the principal diagnosis. We disagree with the requestor’s suggestion that every oxygen-dependent COPD patient has chronic respiratory failure, and that separately reporting the chronic respiratory failure is clinically redundant. Patients can be oxygen-dependent with COPD and not have a diagnosis of chronic respiratory failure. Therefore, we are proposing to maintain the structure of principal diagnosis collection list number 0744 in the CC Exclusions List logic for FY 2022.

Finally, we received a request to reconsider the MCC exclusions for diagnosis code I11.0 (Hypertensive heart disease with heart failure) when reported as the principal diagnosis. According to the requestor, there appears to be an inconsistency for the CC Exclusions List logic. Specifically, the requestor noted that when diagnosis code I11.0 is reported as the principal diagnosis, it causes the following MCC secondary diagnosis codes to be considered as a NonCC.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I50.23</td>
<td>Acute on chronic systolic (congestive) heart failure</td>
</tr>
<tr>
<td>I50.33</td>
<td>Acute on chronic diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I50.41</td>
<td>Acute combined systolic (congestive) and diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I50.43</td>
<td>Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure</td>
</tr>
</tbody>
</table>

However, the requestor stated that diagnosis codes I50.21 (Acute systolic (congestive) heart failure) and I50.31 (Acute diastolic (congestive) heart failure) are not excluded from acting as MCCs when diagnosis code I11.0 is reported as the principal diagnosis. The requestor also stated that all diagnosis codes in category I50 (Heart Failure) share common etiologies and demonstrate comparable severity of illness. Therefore, the requestor suggested that none of the conditions in this category (I50) should be excluded from acting as a MCC when diagnosis code I11.0 is reported as a principal diagnosis.

We examined all the diagnosis codes in category I50 with regard to the CC Exclusions List logic. In addition to diagnosis code I11.0, we also reviewed diagnosis code I11.2 (Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease) when reported as a principal diagnosis because that diagnosis code also has the Tabular instruction “use additional code to identify the type of heart failure”.

We found additional inconsistencies in the CC secondary diagnosis heart failure codes where some diagnoses were excluded depending on the principal diagnosis reported and others were not excluded. As a result, we are proposing to revise the CC Exclusions Logic list for diagnosis codes I11.0 and I13.2 when reported as a principal diagnosis to ensure they are consistent in the CC and MCC diagnoses they exclude. In the following table we show the findings for each diagnosis code in category I50 with respect to the current severity level (MCC, CC or NonCC), if it is currently excluded as a CC or MCC when reported with either diagnosis code I11.0 or I13.2 as the principal diagnosis, and what our proposal is under the CC Exclusions List logic for FY 2022.
<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
<th>Principal Diagnosis</th>
<th>Principal Diagnosis</th>
<th>Proposal for FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>I50.1 (CC)</td>
<td>Left ventricular failure, unspecified</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.20 (CC)</td>
<td>Unspecified systolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.21 (MCC)</td>
<td>Acute systolic (congestive) heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>I50.22 (CC)</td>
<td>Chronic systolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.23 (MCC)</td>
<td>Acute on chronic systolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Remove from CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.30 (CC)</td>
<td>Unspecified diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.31 (MCC)</td>
<td>Acute diastolic (congestive) heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>I50.32 (CC)</td>
<td>Chronic diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.33 (MCC)</td>
<td>Acute on chronic diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Remove from CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.40 (CC)</td>
<td>Unspecified combined systolic (congestive) and diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.41 (MCC)</td>
<td>Acute combined systolic (congestive) and diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Remove from CC Exclusion List for Principal Dx I113.2</td>
</tr>
<tr>
<td>I50.42 (CC)</td>
<td>Chronic combined systolic (congestive) and diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Add to CC Exclusion List for Principal Dx I113.2</td>
</tr>
</tbody>
</table>
We are proposing additional changes to the ICD–10 MS–DRGs Version 39 CC Exclusion List based on the diagnosis and procedure code updates as discussed in section II.D.13. of this FY 2022 IPPS/LTCH PPS proposed rule. Therefore, we have developed Table 6G.1.—Proposed Secondary Diagnosis Order Additions to the CC Exclusion List—FY 2022; Table 6G.2.—Proposed Principal Diagnosis Order Additions to the CC Exclusion List—FY 2022; Table 6H.1.—Proposed Secondary Diagnosis Order Deletions to the CC Exclusions List—FY 2022; and Table 6H.2.—Proposed Principal Diagnosis Order Deletions to the CC Exclusions List—FY 2022. For Table 6G.1, each secondary diagnosis code proposed for addition to the CC Exclusion List is shown with an asterisk and the principal diagnoses proposed to exclude the secondary diagnosis code are provided in the indented column immediately following it. For Table 6G.2, each of the principal diagnosis codes for which there is a CC exclusion is shown with an asterisk and the conditions proposed for addition to the CC Exclusion List are provided in an indented column immediately following the affected principal diagnosis. For Table 6H.1, each secondary diagnosis code proposed for deletion from the CC Exclusion List is shown with an asterisk followed by the principal diagnosis codes that currently exclude it. For Table 6H.2, each of the principal diagnosis codes is shown with an asterisk and the proposed deletions to the CC Exclusions List are provided in an indented column immediately following the affected principal diagnosis. Tables 6G.1, 6G.2, 6H.1, and 6H.2 associated with this proposed rule are available via the internet on the CMS website at: [https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html](https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html).

<table>
<thead>
<tr>
<th>ICD-10 Code</th>
<th>Description</th>
<th>Excluded</th>
<th>Not excluded</th>
<th>Remove from CC Exclusion List for Principal Dx</th>
</tr>
</thead>
<tbody>
<tr>
<td>I50.43 (MCC)</td>
<td>Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure</td>
<td>Excluded</td>
<td>Not excluded</td>
<td>Remove from CC Exclusion List for Principal Dx I11.0</td>
</tr>
<tr>
<td>150.810 (NonCC)</td>
<td>Right heart failure, unspecified</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.811 (NonCC)</td>
<td>Acute right heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.812 (NonCC)</td>
<td>Chronic right heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.813 (NonCC)</td>
<td>Acute on chronic right heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.814 (NonCC)</td>
<td>Right heart failure due to left heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.82 (NonCC)</td>
<td>Biventricular heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.83 (NonCC)</td>
<td>High output heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.84 (NonCC)</td>
<td>End stage heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.89 (NonCC)</td>
<td>Other heart failure</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
<tr>
<td>150.9 (NonCC)</td>
<td>Heart failure, unspecified</td>
<td>Not excluded</td>
<td>Not excluded</td>
<td>No change</td>
</tr>
</tbody>
</table>

To identify new, revised and deleted diagnosis and procedure codes, for FY 2022, we have developed Table 6A.—New Diagnosis Codes, Table 6B.—New Procedure Codes, Table 6C.—Invalid Diagnosis Codes, Table 6D.—Invalid Procedure Codes and Table 6E.—Revised Diagnosis Code Titles for this proposed rule.

These tables are not published in the Addendum to this proposed rule, but are available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html as described in section VI. of the Addendum to this proposed rule. As discussed in section III.D.16. of the preamble of this proposed rule, the code titles are adopted as part of the ICD–10 (previously ICD–9–CM) Coordination and Maintenance Committee meeting process. Therefore, although we publish the code titles in the IPPS proposed and final rules, they are not subject to comment in the proposed or final rules.

We are proposing the MDC and MS–DRG assignments for the new diagnosis codes and procedure codes as set forth in Table 6A.—New Diagnosis Codes and Table 6B.—New Procedure Codes. In addition, the proposed severity level designations for the new diagnosis codes are set forth in Table 6A. and the proposed O.R. status for the new procedure codes are set forth in Table 6B. Consistent with our established process, we examined the MS–DRG assignment and the attributes (severity level and O.R. status) of the predecessor diagnosis or procedure code, as applicable, to inform our proposed assignments and designations.

Specifically, we review the predecessor code and MS–DRG assignment most closely associated with the new diagnosis or procedure code, and in the absence of claims data, we consider other factors that may be relevant to the MS–DRG assignment, including the severity of illness, treatment difficulty, complexity of service and the resources utilized in the diagnosis and/or treatment of the condition. We note that this process does not automatically result in the new diagnosis or procedure code being proposed for assignment to the same MS–DRG or to have the same designation as the predecessor code.

We are making available on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html the following tables associated with this proposed rule:

- Table 6A.—New Diagnosis Codes—FY 2022;
- Table 6B.—New Procedure Codes—FY 2022;
- Table 6C.—Invalid Diagnosis Codes—FY 2022;
- Table 6D.—Invalid Procedure Codes—FY 2022;
- Table 6E.—Revised Diagnosis Code Titles—FY 2022;
- Table 6G.1.—Proposed Secondary Diagnosis Order Additions to the CC Exclusions List—FY 2022;
- Table 6G.2.—Proposed Principal Diagnosis Order Additions to the CC Exclusions List—FY 2022;
- Table 6H.1.—Proposed Secondary Diagnosis Order Deletions to the CC Exclusions List—FY 2022;
- Table 6H.2.—Proposed Principal Diagnosis Order Deletions to the CC Exclusions List—FY 2022;
- Table 6I.1.—Proposed Additional Additions to the MCC List—FY 2022;
- Table 6I.2.—Proposed Additions to the MCC List—FY 2022;
- Table 6J.1.—Proposed Additions to the CC List—FY 2022.

14. Proposed Changes to the Medicare Code Editor (MCE)

The Medicare Code Editor (MCE) is a software program that detects and reports errors in the coding of Medicare claims data. Patient diagnoses, procedure(s), and demographic information are entered into the Medicare claims processing systems and are subjected to a series of automated screens. The MCE screens are designed to identify cases that require further review before classification into an MS–DRG.

As discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58448), we made available the FY 2021 ICD–10 MCE Version 38 manual file. The manual contains the definitions of the Medicare code edits, including a description of each coding edit with the corresponding diagnosis and procedure code edit lists. The link to this MCE manual file, along with the link to the mainframe and computer software for the MCE Version 38 (and ICD–10 MS–DRGs) are posted on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/MS-DRG-Classifications-and-Software.

For this FY 2022 IPPS/LTCH PPS proposed rule, we address the MCE requests we received by the November 1, 2020 deadline. We also discuss the proposals we are making based on our internal review and analysis.

a. External Causes of Morbidity Codes as Principal Diagnosis

In the MCE, the external cause codes (V, W, X, or Y codes) describe the circumstance causing an injury, not the nature of the injury, and therefore should not be used as a principal diagnosis.

As discussed in section II.D.13. of the preamble of this proposed rule, Table 6A.—New Diagnosis Codes, lists the diagnosis codes that have been approved to date which will be effective with discharges on and after October 1, 2021. We are proposing to add the following new ICD–10–CM diagnosis codes to the External Causes of Morbidity edit code list.

<table>
<thead>
<tr>
<th>ICD-10-CM code</th>
<th>Code description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y35.899A</td>
<td>Legal intervention involving other specified means, unspecified person injured, initial encounter</td>
</tr>
<tr>
<td>Y35.899D</td>
<td>Legal intervention involving other specified means, unspecified person injured, subsequent encounter</td>
</tr>
<tr>
<td>Y35.899S</td>
<td>Legal intervention involving other specified means, unspecified person injured, sequela</td>
</tr>
</tbody>
</table>
b. Age Conflict Edit

In the MCE, the Age conflict edit exists to detect inconsistencies between a patient’s age and any diagnosis on the patient’s record; for example, a 5-year-old patient with benign prostatic hypertrophy or a 78-year-old patient coded with a delivery. In these cases, the diagnosis is clinically and virtually impossible for a patient of the stated age. Therefore, either the diagnosis or the age is presumed to be incorrect. Currently, in the MCE, the following four age diagnosis categories appear under the Age conflict edit and are listed in the manual and written in the software program:

- Perinatal/Newborn—Age 0 years only; a subset of diagnoses which will only occur during the perinatal or newborn period of age 0 (for example, tetanus neonatorum, health examination for newborn under 8 days old).
- Pediatric—Age is 0–17 years inclusive (for example, Reye’s syndrome, routine child health exam).
- Maternity—Age range is 9–64 years inclusive (for example, diabetes in pregnancy, antepartum pulmonary complication).
- Adult—Age range is 15–124 years inclusive (for example, senile delirium, mature cataract).

(1) Pediatric Diagnoses

Under the ICD–10 MCE, the Pediatric diagnoses category for the Age conflict edit considers the age range of 0 to 17 years inclusive. For that reason, the diagnosis codes on this Age conflict edit list would be expected to apply to conditions or disorders specific to that age group only.

As discussed in section II.D.13. of the preamble of this proposed rule, Table 6A.—New Diagnosis Codes, lists the diagnosis codes that have been approved to date which will be effective with discharges on and after October 1, 2021. We are proposing to add the following new ICD–10–CM diagnosis codes to the Pediatric diagnoses category code list under the Age conflict edit.

<table>
<thead>
<tr>
<th>ICD-10-CM code</th>
<th>Code description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R63.31</td>
<td>Pediatric feeding disorder, acute</td>
</tr>
<tr>
<td>R63.32</td>
<td>Pediatric feeding disorder, chronic</td>
</tr>
</tbody>
</table>

c. Sex Conflict Edit

In the MCE, the Sex conflict edit detects inconsistencies between a patient’s sex and any diagnosis or procedure on the patient’s record; for example, a male patient with cervical cancer (diagnosis) or a female patient with a prostatectomy (procedure). In both instances, the indicated diagnosis or the procedure conflicts with the stated sex of the patient. Therefore, the patient’s diagnosis, procedure, or sex is presumed to be incorrect.

(1) Diagnoses for Females Only Edit

As discussed in section II.D.13. of the preamble of this proposed rule, Table 6A.—New Diagnosis Codes, lists the new diagnosis codes that have been approved to date which will be effective with discharges on and after October 1, 2021. We are proposing to add the following new ICD–10–CM diagnosis codes to the edit code list for the Diagnoses for Females Only edit.

<table>
<thead>
<tr>
<th>ICD-10-CM code</th>
<th>Code description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C56.3</td>
<td>Malignant neoplasm of bilateral ovaries</td>
</tr>
<tr>
<td>C79.63</td>
<td>Secondary malignant neoplasm of bilateral ovaries</td>
</tr>
</tbody>
</table>

d. Unacceptable Principal Diagnosis Edit

In the MCE, there are select codes that describe a circumstance which influences an individual’s health status but does not actually describe a current illness or injury. There also are codes that are not specific manifestations but may be due to an underlying cause. These codes are considered unacceptable as a principal diagnosis. In limited situations, there are a few codes on the MCE Unacceptable Principal Diagnosis edit code list that are considered “acceptable” when a specified secondary diagnosis is also coded and reported on the claim.

As discussed in Section II.D.13. of the preamble of this proposed rule, Table 6A.—New Diagnosis Codes, lists the new diagnosis codes that have been approved to date which will be effective with discharges on and after October 1, 2021. In addition, as a result of proposed new instructional notes to “Code first underlying disease” (which indicate the proper sequencing order of the codes) for existing diagnosis codes found at subcategory M40.1 (Other secondary kyphosis) and subcategory M41.5 (Other secondary scoliosis) discussed at the September 8–9, 2020 ICD–10 Coordination and Maintenance Committee meeting, we are proposing to add the following new and, if these instructional notes are finalized, existing ICD–10–CM diagnosis codes at subcategories M40.1 and M41.5, to the Unacceptable Principal Diagnosis edit code list.

BILLING CODE 4120–01–P
In addition, as discussed in section II.D.13. of the preamble of this proposed rule, Table 6C—Invalid Diagnosis Codes, lists the diagnosis codes that are
Included in this table are the following ICD–10–CM diagnosis codes that are currently listed on the Unacceptable Principal Diagnosis edit code list. We are proposing to delete these codes from the Unacceptable Principal Diagnosis edit code list.

<table>
<thead>
<tr>
<th>ICD-10-CM code</th>
<th>Code description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T40.7X5A</td>
<td>Adverse effect of cannabis (derivatives), initial encounter</td>
</tr>
<tr>
<td>T40.7X5D</td>
<td>Adverse effect of cannabis (derivatives), subsequent encounter</td>
</tr>
<tr>
<td>T40.7X5S</td>
<td>Adverse effect of cannabis (derivatives), sequela</td>
</tr>
<tr>
<td>T40.7X6A</td>
<td>Underdosing of cannabis (derivatives), initial encounter</td>
</tr>
<tr>
<td>T40.7X6D</td>
<td>Underdosing of cannabis (derivatives), subsequent encounter</td>
</tr>
<tr>
<td>T40.7X6S</td>
<td>Underdosing of cannabis (derivatives), sequela</td>
</tr>
<tr>
<td>Z91.5</td>
<td>Personal history of self-harm</td>
</tr>
</tbody>
</table>

e. Unspecified Codes

As discussed in section II.D.12.c. of the preamble of this proposed rule, we are requesting public comments on a potential change to the severity level designations for “unspecified” ICD–10–CM diagnosis codes that we are considering adopting for FY 2022. In connection with that request, we are also requesting public comments on the potential creation of a new MCE code edit involving these “unspecified” codes for FY 2022. Specifically, this MCE code edit could trigger when an “unspecified” diagnosis code currently designated as either a CC or MCC, that includes other codes available in that code subcategory that further specify the anatomic site, is entered. We refer the reader to table 6P.3a (which is available via the internet on the CMS website at: http://www.cms.hhs.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html) for the list of unspecified diagnosis codes that would be subject to this edit. This edit could signal to the provider that a more specific code is available to report. We believe this edit aligns with documentation improvement efforts and leverages the specificity within ICD–10. As part of our request for comment on the potential creation of this new MCE code edit for these “unspecified” codes, we are interested in comments on how this MCE code edit may be developed for FY 2022 to more accurately reflect each health care encounter and improve the reliability and validity of the coded data.

f. Future Enhancement

In the FY 2018 IPPS/LTCH PPS final rule (83 FR 38053 through 38054) we noted the importance of ensuring accuracy of the coded data from the reporting, collection, processing, coverage, payment and analysis aspects. Subsequently, in the FY 2019 IPPS/LTCH PPS proposed rule (83 FR 20235) we stated that we engaged a contractor to assist in the review of the limited coverage and non-covered procedure edits in the MCE that may also be present in other claims processing systems that are utilized by our MACs. The MACs must adhere to criteria specified within the National Coverage Determinations (NCDs) and may implement their own edits in addition to what is already incorporated into the MCE, resulting in duplicate edits. The objective of this review is to identify where duplicate edits may exist and to determine what the impact might be if these edits were to be removed from the MCE.

We have also noted that the purpose of the MCE is to ensure that errors and inconsistencies in the coded data are recognized during Medicare claims processing. As we indicated in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41228), we are considering whether the inclusion of coverage edits in the MCE necessarily aligns with that specific goal because the focus of coverage edits is on whether or not a particular service is covered for payment purposes and not whether it was coded correctly. As we continue to evaluate the purpose and function of the MCE with respect to ICD–10, we encourage public input for future discussion. As we have discussed in prior rulemaking, we recognize a need to further examine the current list of edits and the definitions of those edits. We continue to encourage public comments on whether there are additional concerns with the current edits, including specific edits or language that should be removed or revised, edits that should be combined, or new edits that should be added to assist in detecting errors or inaccuracies in the coded data. Comments should be directed to the MS–DRG Classification Change Mailbox located at MSDRGCClassificationChange@cms.hhs.gov by November 1, 2021.

15. Proposed Changes to Surgical Hierarchies

Some inpatient stays entail multiple surgical procedures, each one of which, occurring by itself, could result in assignment of the case to a different MS–DRG within the MDC to which the principal diagnosis is assigned. Therefore, it is necessary to have a decision rule within the GROUPER by which these cases are assigned to a single MS–DRG. The surgical hierarchy, an ordering of surgical classes from most resource-intensive to least resource-intensive, performs that function. Application of this hierarchy ensures that cases involving multiple surgical procedures are assigned to the MS–DRG associated with the most resource-intensive surgical class.

A surgical class can be composed of one or more MS–DRGs. For example, in MDC 11, the surgical class “kidney transplant” consists of a single MS–DRG (MS–DRG 652) and the class “major bladder procedures” consists of three MS–DRGs (MS–DRGs 653, 654, and 655). Consequently, in many cases, the surgical hierarchy has an impact on more than one MS–DRG. The methodology for determining the most resource-intensive surgical class involves weighting the average resources for each MS–DRG by frequency to determine the weighted average resources for each surgical class. For example, assume surgical class A includes MS–DRGs 001 and 002 and surgical class B includes MS–DRGs 003, 004, and 005. Assume also that the average costs of MS–DRG 001 are higher than that of MS–DRG 003, but the average costs of MS–DRGs 004 and 005
are higher than the average costs of MS–DRG 002. To determine whether surgical class A should be higher or lower than surgical class B in the surgical hierarchy, we would weight the average costs of each MS–DRG in the class by frequency (that is, by the number of cases in the MS–DRG) to determine average resource consumption for the surgical class. The surgical classes would then be ordered from the class with the highest average resource utilization to that with the lowest, with the exception of “other O.R. procedures” as discussed in this proposed rule.

This methodology may occasionally result in assignment of a case involving multiple procedures to the lower-weighted MS–DRG (in the highest, most resource-intensive surgical class) of the available alternatives. However, given that the logic underlying the surgical hierarchy provides that the GROUPER search for the procedure in the most resource-intensive surgical class, in cases involving multiple procedures, this result is sometimes unavoidable.

We note that, notwithstanding the foregoing discussion, there are a few instances when a surgical class with a lower average cost is ordered above a surgical class with a higher average cost. For example, the “other O.R. procedures” surgical class is uniformly ordered last in the surgical hierarchy of each MDC in which it occurs, regardless of the fact that the average costs for the MS–DRG or MS–DRGs in that surgical class may be higher than those for other surgical classes in the MDC. The “other O.R. procedures” class is a group of procedures that are only infrequently related to the diagnoses in the MDC, but are still occasionally performed on patients with cases assigned to the MDC with these diagnoses. Therefore, assignment to these surgical classes should only occur if no other surgical class more closely related to the diagnoses in the MDC is appropriate.

A second example occurs when the difference between the average costs for two surgical classes is very small. We have found that small differences generally do not warrant reordering of the hierarchy because, as a result of reassinging cases on the basis of the hierarchy change, the average costs are likely to shift such that the higher-ordered surgical class has lower average costs than the class ordered below it.

For this FY 2022 IPPS/LTCH PPS proposed rule, we received a request to examine the MS–DRG hierarchy within MDC 05 (Diseases and Disorders of the Circulatory System). The requestor stated its request to review the hierarchy within MDC 05 was based on the relative weights within each MS–DRG subdivision which they stated are supportive of higher position within the hierarchy. The requestor stated that when multiple procedures are performed, it is reasonable for providers to be compensated for the highest weighted procedure. The requestor did not specify which data year it analyzed to identify the relative weights. As discussed in this section, in reviewing the surgical hierarchy, we weigh the average costs of each MS–DRG in the class by frequency (that is, by the number of cases in the MS–DRG), not the relative weights of each MS–DRG as suggested by the requestor, to determine average resource consumption for the surgical class; therefore, consistent with our annual process, we used the methodology as described previously to review the surgical hierarchy within MDC 05.

Based on our review of the surgical hierarchy within MDC 05 in response to this request, and in response to the request we received to review the MS–DRG assignments for cases involving the surgical ablation procedure for atrial fibrillation as discussed in section II.D.5.e. of the preamble of this proposed rule, we are proposing to revise the surgical hierarchy for the MS–DRGs in MDC 05 for FY 2022.

Specifically, we are proposing to sequence MS–DRGs 231–236 above MS–DRGs 222–227 and below MS–DRGs 216–221, sequence MS–DRGs 222–227 above MS–DRGs 266–267 and below MS–DRGs 266–267 above MS–DRGs 266–267 and below MS–DRGs 266–267, sequence MS–DRGs 231–236, sequence MS–DRGs 266–267 above MS–DRGs 266–267 and below MS–DRGs 266–267, sequence MS–DRGs 222–227, sequence MS–DRGs 222–227 above MS–DRGs 319–320 and below MS–DRGs 319–320.


<table>
<thead>
<tr>
<th>Proposed Surgical Hierarchy: MDC 05</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
</tr>
<tr>
<td>216–221</td>
</tr>
<tr>
<td>231–236</td>
</tr>
<tr>
<td>222–227</td>
</tr>
<tr>
<td>266–267</td>
</tr>
<tr>
<td>268–269</td>
</tr>
<tr>
<td>228–229</td>
</tr>
<tr>
<td>319–320</td>
</tr>
</tbody>
</table>


In September 1985, the ICD–9–CM Coordination and Maintenance Committee was formed. This is a Federal interdepartmental committee, co-chaired by the Centers for Disease Control and Prevention’s (CDC) National Center for Health Statistics (NCHS) and CMS, charged with maintaining and updating the ICD–9–CM system. The final update to ICD–9–CM codes was made on October 1, 2013. Thereafter, the name of the Committee was changed to the ICD–10 Coordination and Maintenance Committee, effective with the March 19–20, 2014 meeting. The ICD–10 Coordination and Maintenance Committee addresses updates to the ICD–10–CM and ICD–10–PCS coding systems. The Committee is jointly responsible for approving coding changes, and developing errata addenda, and other modifications to the coding systems to reflect newly developed procedures and technologies and newly identified diseases. The Committee is also responsible for promoting the use of Federal and non-Federal educational programs and other communication techniques with a view toward standardizing coding applications and upgrading the quality of the classification system.

The official list of ICD–9–CM diagnosis and procedure codes by fiscal year can be found on the CMS website at: http://cmsgen.gov/Medicare/Coding/ICD9ProviderDiagnosticCodes/

The NCHS has lead responsibility for the ICD–10–CM and ICD–9–CM diagnosis codes included in the Tabular List and Alphabetic Index for Diseases, while CMS has lead responsibility for the ICD–10–PCS and ICD–9–CM procedure codes included in the Tabular List and Alphabetic Index for Procedures.

The Committee encourages participation in the previously mentioned process by health-related organizations. In this regard, the Committee holds public meetings for discussion of educational issues and proposed coding changes. These meetings provide an opportunity for representatives of recognized organizations in the coding field, such as the American Health Information Management Association (AHIMA), the American Hospital Association (AHA), and various physician specialty groups, as well as individual physicians, health information management professionals, and other members of the public, to contribute ideas on coding matters.

After considering the opinions expressed during the public meetings and in writing, the Committee formulates recommendations, which then must be approved by the agencies.

The Committee presented proposals for coding changes for implementation in FY 2022 at a public meeting held on September 8–9, 2020 and finalized the coding changes after consideration of comments received at the meetings and in writing by November 09, 2020.

The Committee held its 2021 meeting on March 9–10, 2021. The deadline for submitting comments on these code proposals was April 9, 2021. It was announced at this meeting that any new diagnosis and procedure codes for which there was consensus of public support and for which complete tabular and indexing changes would be made by June 2021 would be included in the October 1, 2021 update to the ICD–10–CM diagnosis and ICD–10–PCS procedure code sets. As discussed in earlier sections of the preamble of this proposed rule, there are new, revised, and deleted ICD–10–CM diagnosis codes and ICD–10–PCS procedure codes that are captured in Table 6A.—New Diagnosis Codes, Table 6B.—New Procedure Codes, Table 6C.—Invalid Diagnosis Codes, Table 6D.—Invalid Procedure Codes, and Table 6E.—Revised Diagnosis Code Titles for this proposed rule, which are available via the internet on the CMS website at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html. The code titles are adopted as part of the ICD–10 (previously ICD–9–CM) Coordination and Maintenance Committee process. Therefore, although we make the code titles available for the IPPS proposed rule, they are not subject to comment in the proposed rule. Because of the length of these tables, they are not published in the Addendum to the proposed rule. Rather, they are available via the internet as discussed in section VI. of the Addendum to the proposed rule.

Recordings for the virtual meeting discussions of the procedure codes at the Committee’s September 8–9, 2020 meeting and the March 9–10, 2021 meeting can be obtained from the CMS website at: https://www.cms.gov/Medicare/Coding/ICD10/C-and-M-Meeting-Materials. The materials for the discussions relating to diagnosis codes at the September 8–9, 2020 meeting and March 9–10, 2021 meeting can be found at: http://www.cdc.gov/nchs/icd/icd10cm_maintenance.html. These websites also provide detailed information about the Committee, including information on requesting a new code, participating in a Committee meeting, timeline requirements and meeting dates.

We encourage commenters to submit questions and comments on coding issues involving diagnosis codes via Email to: nchsicd10cm@cdc.gov. Questions and comments concerning the procedure codes should be submitted via Email to: ICDProcedureCodeRequest@cms.hhs.gov.

As a result of the ongoing COVID–19 public health emergency, the CDC implemented six new diagnosis codes describing conditions related to COVID–19 into the ICD–10–CM effective with discharges on and after January 1, 2021. The diagnosis codes are

<table>
<thead>
<tr>
<th>ICD-10-CM code</th>
<th>Code description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J12.82</td>
<td>Pneumonia due to coronavirus disease 2019</td>
</tr>
<tr>
<td>M35.81</td>
<td>Multisystem inflammatory syndrome (MIS)</td>
</tr>
<tr>
<td>M35.89</td>
<td>Other specified systemic involvement of connective tissue</td>
</tr>
<tr>
<td>Z11.52</td>
<td>Encounter for screening for COVID-19</td>
</tr>
<tr>
<td>Z20.822</td>
<td>Contact with and (suspected) exposure to COVID-19</td>
</tr>
<tr>
<td>Z86.16</td>
<td>Personal history of COVID-19</td>
</tr>
</tbody>
</table>

We refer the reader to the CDC web page at https://www.cdc.gov/nchs/icd/ icd10cm.htm for additional details regarding the implementation of these new diagnosis codes.

We provided the MS–DRG assignments for the six diagnosis codes effective with discharges on and after January 1, 2021, consistent with our established process for assigning new diagnosis codes. Specifically, we review the predecessor diagnosis code and MS–DRG assignment most closely associated with the new diagnosis code, and consider other factors that may be relevant to the MS–DRG assignment, including the severity of illness, treatment difficulty, and the resources utilized for the specific condition/diagnosis. We note that this process does not automatically result in the new
The assignments for the previously listed diagnosis codes are reflected in Table 6A- New Diagnosis Codes (which is available via the internet on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS). As with the other new diagnosis codes and MS–DRG assignments included in Table 6A of this proposed rule, we are soliciting public comments on the most appropriate MDC, MS–DRG, and severity level assignments for these codes for FY 2022, as well as any other options for the GROUPER logic.

In addition, CMS implemented 21 new procedure codes describing the introduction or infusion of therapeutics, including monoclonal antibodies and vaccines for COVID–19 treatment, into the ICD–10–PCS effective with discharges on and after January 01, 2021. The 21 procedure codes listed in this section of this rule are designated as non-O.R. and do not affect any MDC or MS–DRG assignment as shown in the following table.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
<th>O.R.</th>
<th>MDC</th>
<th>MS-DRG</th>
</tr>
</thead>
<tbody>
<tr>
<td>XW013H6</td>
<td>Introduction of other new technology monoclonal antibody into subcutaneous tissue, percutaneous approach, new technology group 6</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XW013K6</td>
<td>Introduction of leronlimab monoclonal antibody into subcutaneous tissue, percutaneous approach, new technology group 6</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XW013S6</td>
<td>Introduction of COVID-19 vaccine dose 1 into subcutaneous tissue, percutaneous approach, new technology group 6</td>
<td>N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The ICD–10 MS–DRG assignment for cases reporting any one of the 21 procedure codes is dependent on the reported principal diagnosis, any secondary diagnoses defined as a CC or MCC, procedures or services performed, age, sex, and discharge status. The 21 procedure codes are reflected in Table 6B—New Procedure Codes (which is available via the internet on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS.) As with the other new procedure codes and MS–DRG assignments included in Table 6B of this proposed rule, we are soliciting public comments on the most appropriate MDC, MS–DRG, and operating room status assignments for

<table>
<thead>
<tr>
<th>Procedure Code</th>
<th>Description</th>
<th>MDC</th>
<th>MS–DRG</th>
<th>OR Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>XW013T6</td>
<td>Introduction of COVID-19 vaccine dose 2 into subcutaneous tissue, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW013U6</td>
<td>Introduction of COVID-19 vaccine into subcutaneous tissue, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW023S6</td>
<td>Introduction of COVID-19 vaccine dose 1 into muscle, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW023T6</td>
<td>Introduction of COVID-19 vaccine dose 2 into muscle, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW023U6</td>
<td>Introduction of COVID-19 vaccine into muscle, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW033E6</td>
<td>Introduction of etesevimab monoclonal antibody into peripheral vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW033F6</td>
<td>Introduction of bamlanivimab monoclonal antibody into peripheral vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW033G6</td>
<td>Introduction of REGN-COV2 monoclonal antibody into peripheral vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW033H6</td>
<td>Introduction of other new technology monoclonal antibody into peripheral vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW033L6</td>
<td>Introduction of CD24Fc immunomodulator into peripheral vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW043E6</td>
<td>Introduction of etesevimab monoclonal antibody into central vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW043F6</td>
<td>Introduction of bamlanivimab monoclonal antibody into central vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW043G6</td>
<td>Introduction of REGN-COV2 monoclonal antibody into central vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW043H6</td>
<td>Introduction of other new technology monoclonal antibody into central vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW043L6</td>
<td>Introduction of CD24Fc immunomodulator into central vein, percutaneous approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW0DXM6</td>
<td>Introduction of baricitinib into mouth and pharynx, external approach, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW0G7M6</td>
<td>Introduction of baricitinib into upper GI, via natural or artificial opening, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>XW0H7M6</td>
<td>Introduction of baricitinib into lower GI, via natural or artificial opening, new technology group 6</td>
<td></td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>
these codes for FY 2022, as well as any other options for the GROUPER logic. We note that Change Request (CR) 11895, Transmittal 10654, titled “Fiscal Year (FY) 2021 Annual Update to the Medicare Code Editor (MCE) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD–10–CM) and Procedure Coding System (ICD–10–PCS)”, was issued on March 12, 2021 (available via the internet on the CMS website at: https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/Transmittals/rr10654tcp) regarding the release of an updated version of the ICD–10 MS–DRG GROUPER and Medicare Code Editor software, Version 38.1, effective with discharges on and after January 1, 2021, reflecting the new diagnosis and procedure codes. The updated software, along with the updated ICD–10 MS–DRG V38.1 Definitions Manual and the Definitions of Medicare Code Edits V38.1 manual is available at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientPPS/MS-DRG-Classifications-and-Software.

In the September 7, 2001 final rule implementing the IPPS new technology add-on payments (66 FR 46906), we indicated we would attempt to include proposals for procedure codes that would describe new technology discussed and approved at the Spring meeting as part of the code revisions effective the following October. Section 503(a) of Public Law 108–173 included a requirement for updating diagnosis and procedure codes twice a year instead of a single update on October 1 of each year. This requirement was included as part of the amendments to the Act relating to recognition of new technology under the IPPS. Section 503(a) of Public Law 108–173 amended section 1886(d)(5)(K) of the Act by adding a clause (vii) which states that the Secretary shall provide for the addition of new diagnosis and procedure codes on April 1 of each year, but the addition of such codes shall not require the Secretary to adjust the payment (or diagnosis-related group classification) until the fiscal year that begins after such date. This requirement improves the recognition of new technologies under the IPPS by providing information on these new technologies at an earlier date. Data will be available 6 months earlier than would be possible with updates occurring only once a year on October 1.

While section 1886(d)(5)(K)(vii) of the Act states that the addition of new diagnosis and procedure codes on April 1 of each year shall not require the Secretary to adjust the payment, or DRG classification, under section 1886(d) of the Act until the fiscal year that begins after such date, we have to update the DRG software and other systems in order to recognize and accept the new codes. We also publicize the code changes and the need for a mid-year systems update by providers to identify the new codes. Hospitals also have to obtain the new code books and encoder updates, and make other system changes in order to identify and report the new codes.

The ICD–10 (previously the ICD–9–CM) Coordination and Maintenance Committee holds its meetings in the spring and fall in order to update the codes and the applicable payment and reporting systems by October 1 of each year. Items are placed on the agenda for the Committee meeting if the request is received at least 3 months prior to the meeting. This requirement allows time for staff to review and research the coding issues and prepare material for discussion at the meeting. It also allows time for the topic to be publicized in meeting announcements. This requirement was included as part of the Act until the fiscal year that begins after such date. We have to update the DRG software and other systems in order to recognize and accept the new codes. Hospitals also have to obtain the new code books and encoder updates, and make other system changes in order to identify and report the new codes.

A complete addendum describing details of all diagnosis and procedure coding changes, both tabular and index, is published on the CMS and NCHS websites in June of each year. Publishers of coding books and software use this information to modify their products that are used by health care providers. Historically, this 5-month time period has proved to be necessary for hospitals and other providers to update their systems.

A discussion of this timeline and the need for changes are included in the December 4–5, 2005 ICD–9–CM Coordination and Maintenance Committee Meeting minutes. The public agreed that there was a need to hold the fall meetings earlier, in September or October, in order to meet the new implementation dates. The public provided comment that additional time would be needed to update hospital systems and obtain code books and coding software. There was considerable concern expressed about the impact this April update would have on providers.

In the FY 2005 IPPS final rule, we implemented section 1886(d)(5)(K)(vii) of the Act, as added by section 503(a) of Public Law 108–173, by developing a mechanism for approving, in time for the April update, diagnosis and procedure code revisions needed to describe new technologies and medical services for purposes of the new technology add-on payment process. We also established the following process for making these determinations. Topics considered during the Fall ICD–10 (previously ICD–9–CM) Coordination and Maintenance Committee meeting are considered for an April 1 update if a strong and convincing case is made by the requestor during the Committee’s public meeting. The request must identify the reason why a new code is needed in April for purposes of the new technology process. Meeting participants and those reviewing the Committee meeting materials are provided the opportunity to comment on this expedited request. All other topics are considered for the October 1 update. Participants of the Committee meeting and those reviewing the Committee meeting materials are encouraged to comment on all such requests. There were no code requests approved for an expedited April 1, 2021 implementation at the September 8–9, 2020 Committee meetings. Therefore, there were no new codes implemented April 1, 2021.

At the March 9–10, 2021 ICD–10 Coordination and Maintenance Committee meeting we announced our consideration of an April 1 implementation date for ICD–10–CM diagnosis and ICD–10–PCS procedure code updates, in addition to the current October 1 annual update for ICD–10–CM diagnosis codes and ICD–10–PCS procedure codes. We stated that this April 1 code update would be in addition to the existing April 1 update under section 1886(d)(5)(K)(vii) of the Act for diagnosis or procedure code revisions needed to describe new technologies and medical services for purposes of the new technology add-on payment process. As explained during the March 9–10, 2021 meeting, we believe this additional April 1 implementation date for new codes would allow for earlier recognition of diagnoses, conditions, and illnesses as well as procedures, services, and treatments in the claims data. We also believe this earlier recognition would be beneficial for purposes of reporting, data collection, tracking clinical outcomes, claims processing, surveillance, research, policy decisions and data interoperability. We noted, as previously summarized, that in 2005, in connection with the implementation of the current April 1 update for diagnosis or procedure code revisions for purposes of the new technology add-on payment process, stakeholders expressed concerns with an April 1 update, specifically with regard to the time needed to update hospital systems and obtain new code books and coding software. We believe that the advances in technology that have occurred since
that time, including the use of electronic health records (EHRs), electronic coding books, and updated encoder software that are now utilized by the majority of providers, would alleviate those concerns and make a broader April 1 update more feasible today. Consistent with our established process for the existing April 1 update under section 1886(d)(5)(k)(vii) of the Act, if adopted, any new ICD–10 code updates finalized for implementation on the following April 1 would be announced in November of the prior year, which would provide a 4-month timeframe for the public to receive notice about the diagnosis and/or procedure code updates with respect to the codes, code descriptions, code designations (severity level for diagnosis codes or O.R. status for procedure code) and code assignment under the ICD–10 MS–DRGs. As discussed during the March 9–10, 2021 meeting, all April 1 code update files would be made publicly available by February 1, providing a 2-month timeframe for providers to incorporate systems updates. We also do not anticipate any need for code book publishers to issue new code books as a result of an April 1 code update, if adopted. Rather, as was done in the past at the publisher’s discretion, supplemental pages containing the code update information were made available and sent to purchasers of the code book products. We further note that historically, coders would hand-write any updates or notes directly into their code books. In addition, with the availability of electronic code book files, we would anticipate any April 1 code updates, if adopted, could be reasonably completed in the allotted timeframe. For these same reasons, we also do not believe a 5-month time period would continue to be needed to update providers’ systems to reflect newly approved coding changes. We further note that if an April 1 update were to be adopted, it could be through a phased approach, such that initially, the number and nature of the code updates would be fewer and less comprehensive as compared to the existing October 1 update. For example, it was discussed during the meeting that consideration could first be given to proposals identified as “Addenda”. For diagnosis codes, the proposed addenda updates typically consist primarily of minor revisions to the Index and Tabular List, such as corrections to typos and changes to instructional notes. For procedure codes, the proposed addenda updates typically consist primarily of minor revisions to the Index and Tables, such as adding or deleting entries to describe a body part or approach value or making changes to the Substance and Device Keys. We would use our established process to implement an April 1 code update, which would include presenting proposals for April 1 consideration at the September ICD–10 Coordination and Maintenance Committee meeting, requesting public comments, reviewing the public comments, finalizing codes, and announcing the new codes with their assignments consistent with the new GROUPER release information. Under our contemplated process, requestors would indicate whether they are submitting their code request for consideration for an April 1 implementation date, if adopted, or an October 1 implementation date. The ICD–10 Coordination and Maintenance Committee would make efforts to accommodate the requested implementation date for each request submitted. However, the Committee would determine which requests would be presented for consideration for an April 1 implementation date or an October 1 implementation date. We refer the reader to the Agenda packet from the meeting at: https://www.cms.gov/Medicare/Coding/ICD10-C-and-M-Meeting-Materials for additional information regarding this announcement and our request for comments.

If this new April 1 implementation date is adopted, we would assign the codes approved for the April 1 update to an MS–DRG(s) using our established process for Groupers assignments for new diagnosis and procedure codes. Specifically, consistent with our established process for assigning new diagnosis and procedure codes, we would review the predecessor code and MS–DRG assignment most closely associated with the new diagnosis or procedure code, and in the absence of claims data, we would consider other factors that may be relevant to the MS–DRG assignment, including the severity of illness, treatment difficulty, complexity of service, and the resources utilized in the diagnosis and/or treatment of the condition. We note that this process would not automatically result in the new diagnosis or procedure code being assigned to the same MS–DRG or having the same designation as the predecessor code.


Information on ICD–10–CM diagnosis codes, along with the Official ICD–10–CM Coding Guidelines, can be found on the CDC website at: https://www.cdc.gov/nchs/icd/icd10cm.htm. Additionally, information on new, revised, and deleted ICD–10–CM diagnosis and ICD–10–PCS procedure codes is provided to the AHA for publication in the Coding Clinic for ICD–10. The AHA also distributes coding update information to publishers and software vendors.

For FY 2021, there are currently 72,621 diagnosis codes and 78,136 ICD–10–PCS procedure codes. As displayed in Table 6A.—New Diagnosis Codes and in Table 6B.—New Procedure Codes associated with this proposed rule (and available via the internet on the CMS website at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index/, there are 147 new diagnosis codes and 106 new procedure codes that have been finalized for FY 2022 at the time of the development of this proposed rule. The code titles are adopted as part of the ICD–10 Coordination and Maintenance Committee process. Thus, although we publish the code titles in the IPPS proposed and final rules, they are not subject to comment in the proposed or final rules. We will continue to provide the October updates in this manner in the IPPS proposed and final rules.

17. Replaced Devices Offered Without Cost or With a Credit

a. Background

In the FY 2008 IPPS final rule with comment period (72 FR 47246 through 47251), we discussed the topic of Medicare payment for devices that are replaced without cost or where credit for a replaced device is furnished to the hospital. We implemented a policy to reduce a hospital’s IPPS payment for certain MS–DRGs where the implantation of a device that subsequently failed or was recalled determined the base MS–DRG assignment. At that time, we specified that we will reduce a hospital’s IPPS payment for those MS–DRGs where the hospital received a credit for a replaced device equal to 50 percent or more of the cost of the device.
In the FY 2012 IPPS/LTCH PPS final rule (76 FR 51556 through 51557), we clarified this policy to state that the policy applies if the hospital received a credit equal to 50 percent or more of the cost of the replacement device and issued instructions to hospitals accordingly.

b. Proposed Changes for FY 2022

For FY 2022 we are proposing not to add any MS–DRGs to the policy for replaced devices offered without cost or with a credit. We are proposing to continue to include the existing MS–DRGs currently subject to the policy as displayed in the following table.
<table>
<thead>
<tr>
<th>MDC</th>
<th>MS-DRG</th>
<th>MS-DRG Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-MDC</td>
<td>001</td>
<td>Heart Transplant or Implant of Heart Assist System with MCC</td>
</tr>
<tr>
<td></td>
<td>002</td>
<td>Heart Transplant or Implant of Heart Assist System without MCC</td>
</tr>
<tr>
<td>01</td>
<td>023</td>
<td>Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator</td>
</tr>
<tr>
<td>01</td>
<td>024</td>
<td>Craniotomy with Major Device Implant or Acute Complex CNS Principal Diagnosis without MCC</td>
</tr>
<tr>
<td>01</td>
<td>025</td>
<td>Craniotomy and Endovascular Intracranial Procedures with MCC</td>
</tr>
<tr>
<td>01</td>
<td>026</td>
<td>Craniotomy and Endovascular Intracranial Procedures with CC</td>
</tr>
<tr>
<td>01</td>
<td>027</td>
<td>Craniotomy and Endovascular Intracranial Procedures without CC/MCC</td>
</tr>
<tr>
<td>01</td>
<td>040</td>
<td>Peripheral, Cranial Nerve and Other Nervous System Procedures with MCC</td>
</tr>
<tr>
<td>01</td>
<td>041</td>
<td>Peripheral, Cranial Nerve and Other Nervous System Procedures with CC or Peripheral Neurostimulator</td>
</tr>
<tr>
<td>01</td>
<td>042</td>
<td>Peripheral, Cranial Nerve and Other Nervous System Procedures without CC/MCC</td>
</tr>
<tr>
<td>03</td>
<td>140</td>
<td>Major Head and Neck Procedures with MCC</td>
</tr>
<tr>
<td>03</td>
<td>141</td>
<td>Major Head and Neck Procedures with CC</td>
</tr>
<tr>
<td>03</td>
<td>142</td>
<td>Major Head and Neck Procedures without CC/MCC</td>
</tr>
<tr>
<td>05</td>
<td>215</td>
<td>Other Heart Assist System Implant</td>
</tr>
<tr>
<td>05</td>
<td>216</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedure with Cardiac Catheterization with MCC</td>
</tr>
<tr>
<td>05</td>
<td>217</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedure with Cardiac Catheterization with CC</td>
</tr>
<tr>
<td>05</td>
<td>218</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedure with Cardiac Catheterization without CC/MCC</td>
</tr>
<tr>
<td>05</td>
<td>219</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedure without Cardiac Catheterization with MCC</td>
</tr>
<tr>
<td>05</td>
<td>220</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedure without Cardiac Catheterization with CC</td>
</tr>
<tr>
<td>05</td>
<td>221</td>
<td>Cardiac Valve and Other Major Cardiothoracic Procedure without Cardiac Catheterization without CC/MCC</td>
</tr>
<tr>
<td>05</td>
<td>222</td>
<td>Cardiac Defibrillator Implant with Cardiac Catheterization with AMI/Heart Failure/Shock with MCC</td>
</tr>
<tr>
<td>05</td>
<td>223</td>
<td>Cardiac Defibrillator Implant with Cardiac Catheterization with AMI/Heart Failure/Shock without MCC</td>
</tr>
<tr>
<td>05</td>
<td>224</td>
<td>Cardiac Defibrillator Implant with Cardiac Catheterization without AMI/Heart Failure/Shock with MCC</td>
</tr>
<tr>
<td>05</td>
<td>225</td>
<td>Cardiac Defibrillator Implant with Cardiac Catheterization without AMI/Heart Failure/Shock without MCC</td>
</tr>
<tr>
<td>05</td>
<td>226</td>
<td>Cardiac Defibrillator Implant without Cardiac Catheterization with MCC</td>
</tr>
<tr>
<td>05</td>
<td>227</td>
<td>Cardiac Defibrillator Implant without Cardiac Catheterization without MCC</td>
</tr>
<tr>
<td>05</td>
<td>242</td>
<td>Permanent Cardiac Pacemaker Implant with MCC</td>
</tr>
<tr>
<td>05</td>
<td>243</td>
<td>Permanent Cardiac Pacemaker Implant with CC</td>
</tr>
<tr>
<td>05</td>
<td>244</td>
<td>Permanent Cardiac Pacemaker Implant without CC/MCC</td>
</tr>
</tbody>
</table>
The final list of MS–DRGs subject to the IPPS policy for replaced devices offered without cost or with a credit will be included in the FY 2022 IPPS/LTCH PPS final rule and also will be issued to providers in the form of a Change Request (CR).

### II. Proposed Changes to Medicare Severity Diagnosis-Related Group (MS–DRG) Classifications and Relative Weights

#### E. Recalibration of the FY 2022 MS–DRG Relative Weights

1. **Data Sources for Developing the Relative Weights**

   In accordance with our proposal as discussed in section I.F. of this proposed rule, for the purposes of establishing the FY 2022 MS–DRG relative weights, we are proposing to use the FY 2019 MedPAR claims data, based on claims received by CMS through March 31, 2020, and the March 2020 update of the FY 2018 HCRIS file where we ordinarily would have used the FY 2020 MedPAR claims data, based on claims received by CMS through December 31, 2020, and the December 2020 update of the FY 2019 HCRIS file.

We refer the reader to section I.F. of this

<table>
<thead>
<tr>
<th>MDC</th>
<th>MS-DRG</th>
<th>MS-DRG Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>245</td>
<td>AICD Generator Procedures</td>
</tr>
<tr>
<td>05</td>
<td>258</td>
<td>Cardiac Pacemaker Device Replacement with MCC</td>
</tr>
<tr>
<td>05</td>
<td>259</td>
<td>Cardiac Pacemaker Device Replacement without MCC</td>
</tr>
<tr>
<td>05</td>
<td>260</td>
<td>Cardiac Pacemaker Revision Except Device Replacement with MCC</td>
</tr>
<tr>
<td>05</td>
<td>261</td>
<td>Cardiac Pacemaker Revision Except Device Replacement with CC</td>
</tr>
<tr>
<td>05</td>
<td>262</td>
<td>Cardiac Pacemaker Revision Except Device Replacement without CC/MCC</td>
</tr>
<tr>
<td>05</td>
<td>265</td>
<td>AICD Lead Procedures</td>
</tr>
<tr>
<td>05</td>
<td>266</td>
<td>Endovascular Cardiac Valve Replacement And Supplement Procedures with MCC</td>
</tr>
<tr>
<td>05</td>
<td>267</td>
<td>Endovascular Cardiac Valve Replacement And Supplement Procedures without MCC</td>
</tr>
<tr>
<td>05</td>
<td>268</td>
<td>Aortic and Heart Assist Procedures Except Pulsation Balloon with MCC</td>
</tr>
<tr>
<td>05</td>
<td>269</td>
<td>Aortic and Heart Assist Procedures Except Pulsation Balloon without MCC</td>
</tr>
<tr>
<td>05</td>
<td>270</td>
<td>Other Major Cardiovascular Procedures with MCC</td>
</tr>
<tr>
<td>05</td>
<td>271</td>
<td>Other Major Cardiovascular Procedures with CC</td>
</tr>
<tr>
<td>05</td>
<td>272</td>
<td>Other Major Cardiovascular Procedures without CC/MCC</td>
</tr>
<tr>
<td>05</td>
<td>319</td>
<td>Other Endovascular Cardiac Valve Procedures with MCC</td>
</tr>
<tr>
<td>05</td>
<td>320</td>
<td>Other Endovascular Cardiac Valve Procedures without MCC</td>
</tr>
<tr>
<td>08</td>
<td>461</td>
<td>Bilateral or Multiple Major Joint Procedures Of Lower Extremity with MCC</td>
</tr>
<tr>
<td>08</td>
<td>462</td>
<td>Bilateral or Multiple Major Joint Procedures of Lower Extremity without MCC</td>
</tr>
<tr>
<td>08</td>
<td>466</td>
<td>Revision of Hip or Knee Replacement with MCC</td>
</tr>
<tr>
<td>08</td>
<td>467</td>
<td>Revision of Hip or Knee Replacement with CC</td>
</tr>
<tr>
<td>08</td>
<td>468</td>
<td>Revision of Hip or Knee Replacement without CC/MCC</td>
</tr>
<tr>
<td>08</td>
<td>469</td>
<td>Major Hip and Knee Joint Reattachment or Reattachment of Lower Extremity with MCC or Total Ankle Replacement</td>
</tr>
<tr>
<td>08</td>
<td>470</td>
<td>Major Hip and Knee Joint Reattachment of Lower Extremity without MCC</td>
</tr>
<tr>
<td>08</td>
<td>551</td>
<td>Hip Replacement with Principal Diagnosis of Hip Fracture with MCC</td>
</tr>
<tr>
<td>08</td>
<td>552</td>
<td>Hip Replacement with Principal Diagnosis of Hip Fracture without MCC</td>
</tr>
</tbody>
</table>
proposed rule for further discussion of our analysis of the best available data for purposes of the FY 2022 ratesetting and our related proposals.

Consistent with our established policy, in developing the MS–DRG relative weights for FY 2022, we are proposing to use two data sources: Claims data and cost report data. The claims data source is the MedPAR file, which includes fully coded diagnostic and procedure data for all Medicare inpatient hospital bills. The FY 2019 MedPAR data used in this proposed rule include discharges occurring on October 1, 2018, through September 30, 2019, based on bills received by CMS through March 31, 2020, from all hospitals subject to the IPPS and short-term, acute care hospitals in Maryland (which at that time were under a waiver from the IPPS).

The FY 2019 MedPAR file used in calculating the proposed relative weights includes data for approximately 9,217,828 Medicare discharges from IPPS hospitals. Discharges for Medicare beneficiaries enrolled in a Medicare Advantage managed care plan are excluded from this analysis. These discharges are excluded when the MedPAR “GHO Paid” indicator field on the claim record is equal to “1” or when the MedPAR DRG payment field, which represents the total payment for the claim, is equal to the MedPAR “Indirect Medical Education (IME)” payment field, indicating that the claim was an “IME only” claim submitted by a teaching hospital on behalf of a beneficiary enrolled in a Medicare Advantage managed care plan. In addition, the March 31, 2020 update of the FY 2019 MedPAR file complies with version 5010 of the X12 HIPAA Transaction and Code Set Standards, and includes a variable called “claim type.” Claim type “60” indicates that the claim was an inpatient claim paid as fee-for-service. Claim types “61,” “62,” “63,” and “64” relate to encounter claims, Medicare Advantage IME claims, and HMO no-pay claims. Therefore, the calculation of the proposed relative weights for FY 2022 also excludes claims with claim type values not equal to “60.” The data exclude CAHs, including hospitals that subsequently became CAHs after the period from which the data were taken. We note that the proposed FY 2022 relative weights are based on the ICD–10–CM diagnosis codes and ICD–10–PCS procedure codes from the FY 2019 MedPAR claims data, grouped through the ICD–10–CM version of the proposed FY 2022 GROUPER (Version 39).

The second data source used in the proposed FY 2022 relative weights for FY 2022, we are proposing to use the March 31, 2020 update of the FY 2018 HCRIS for calculating the proposed FY 2022 cost-based relative weights. Consistent with our historical practice, for this FY 2022 proposed rule, we are providing the version of the HCRIS from which we calculated these proposed 19 CCRs on the CMS website at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html. Click on the link on the left side of the screen titled “FY 2022 IPPS Proposed Rule Home Page” or “Acute Inpatient Files for Download.” We note that this file is identical to the file used for the FY 2021 IPPS/LTC PPS final rule. As discussed previously, we are also making available the FY 2019 HCRIS and the FY 2020 MedPAR file as well as other related information and data files for purposes of public comment on our alternative approach of using the same FY 2020 data that we would ordinarily use for purposes of FY 2022 ratesetting.

2. Methodology for Calculation of the Relative Weights

a. General

We calculated the proposed FY 2022 relative weights based on 19 CCRs, as we did for FY 2021. The methodology we are proposing to use to calculate the FY 2022 MS–DRG cost-based relative weights based on claims data in the FY 2019 MedPAR file and data from the FY 2018 Medicare cost reports is as follows:

- To the extent possible, all the claims were regrouped using the proposed FY 2022 MS–DRG classifications discussed in sections II.B. and II.F. of the preamble of this proposed rule.

- The transplant cases that were used to establish the relative weights for heart and heart-lung, liver and/or intestinal, and lung transplants (MS–DRGs 001, 002, 005, 006, and 007, respectively) were limited to those Medicare-approved transplant centers that have cases in the FY 2019 MedPAR file. (Medicare coverage for heart, heart-lung, liver and/or intestinal, and lung transplants is limited to those facilities that have received approval from CMS as transplant centers.)

- Organ acquisition costs for kidney, heart, heart-lung, liver, lung, pancreas, and intestinal (or multivisceral organs) transplants continue to be paid on a reasonable cost basis.

Because these acquisition costs are paid separately from the prospective payment rate, it is necessary to subtract the acquisition charges from the total charges on each transplant bill that showed acquisition charges before computing the average cost for each MS–DRG and before eliminating statistical outliers.

Section 108 of the Further Consolidated Appropriations Act, 2020 provides that, for cost reporting periods beginning on or after October 1, 2020, costs related to hematopoietic stem cell acquisition for the purpose of an allogeneic hematopoietic stem cell transplant shall be paid on a reasonable cost basis. We refer the reader to the FY 2021 IPPS/LTC PPS final rule for further discussion of the reasonable cost basis payment for cost reporting periods beginning on or after October 1, 2020 (85 FR 58835 to 58842). For FY 2022 and subsequent years, we are proposing to subtract the hematopoietic stem cell acquisition charges from the total charges on each transplant bill that showed hematopoietic stem cell acquisition charges before computing the average cost for each MS–DRG and before eliminating statistical outliers.

- Claims with total charges or total lengths of stay less than or equal to zero were deleted. Claims that had an amount in the total charge field that differed by more than $30.00 from the sum of the routine day charges, intensive care charges, pharmacy charges, implantable devices charges, supplies and equipment charges, therapy services charges, operating room charges, cardiology charges, laboratory charges, radiology charges, other service charges, labor and delivery charges, inhalation therapy charges, emergency room charges, blood and blood products charges, anesthesia charges, cardiac catheterization charges, CT scan charges, and MRI charges were also deleted.

- At least 92.8 percent of the providers in the MedPAR file had charges for 14 of the 19 cost centers. All claims of providers that did not have charges greater than zero for at least 14 of the 19 cost centers were deleted. In other words, a provider must have no more than five blank cost centers. If a provider did not have charges greater than zero in more than five cost centers, the claims for the provider were deleted.

- Statistical outliers were eliminated by removing all cases that were beyond 3.0 standard deviations from the geometric mean of the log distribution of both the total charges per case and the total charges per day for each MS–DRG.
• Effective October 1, 2008, because hospital inpatient claims include a POA indicator field for each diagnosis present on the claim, only for purposes of relative weight-setting, the POA indicator field was reset to “Y” for “Yes” for all claims that otherwise have an “N” (No) or a “U” (documentation insufficient to determine if the condition was present at the time of inpatient admission) in the POA field.

Under current payment policy, the presence of specific HAC codes, as indicated by the POA field values, can generate a lower payment for the claim. Specifically, if the particular condition is present on admission (that is, a “Y” indicator is associated with the diagnosis on the claim), it is not a HAC, and the hospital is paid for the higher severity (and, therefore, the higher weighted MS–DRG). If the particular condition is not present on admission (that is, an “N” indicator is associated with the diagnosis on the claim) and there are no other complicating conditions, the DRG GROUPER assigns the claim to a lower severity (and, therefore, the lower weighted MS–DRG) as a penalty for allowing a Medicare inpatient to contract a HAC. While the POA reporting meets policy goals of encouraging quality care and generates program savings, it presents an issue for the relative weight-setting process. Because cases identified as HACs are likely to be more complex than similar cases that are not identified as HACs, the charges associated with HAC cases are likely to be higher as well.

Therefore, if the higher charges of these HAC claims are grouped into lower severity MS–DRGs prior to the relative weight-setting process, the relative weights of these particular MS–DRGs would become artificially inflated, potentially skewing the relative weights. In addition, we want to protect the integrity of the budget neutrality process by ensuring that, in estimating payments, no increase to the standardized amount occurs as a result of lower overall payments in a previous year that stem from using weights and case-mix that are based on lower severity MS–DRG assignments. If this would occur, the anticipated cost savings from the HAC policy would be lost.

To avoid these problems, we reset the POA indicator field to “Y” only for relative weight-setting purposes for all claims that otherwise have an “N” or a “U” in the POA field. This resetting “forced” the more costly HAC claims into the higher severity MS–DRGs as appropriate, and the relative weights calculated for each MS–DRG more closely reflect the true costs of those cases.

In addition, in the FY 2013 IPPS/LTCH PPS final rule, for FY 2013 and subsequent fiscal years, we finalized a policy to treat hospitals that participate in the Bundled Payments for Care Improvement (BPCI) initiative the same as prior fiscal years for the IPPS payment modeling and ratesetting process without regard to hospitals’ participation within these bundled payment models (77 FR 53341 through 53343). Specifically, because acute care hospitals participating in the BPCI Initiative still receive IPPS payments under section 1886(d) of the Act, we include all applicable data from these subsection (d) hospitals in our IPPS payment modeling and ratesetting calculations as if the hospitals were not participating in those models under the BPCI initiative. We refer readers to the FY 2013 IPPS/LTCH PPS final rule for a complete discussion on our final policy for the treatment of hospitals participating in the BPCI initiative in our rate-setting process.

For additional information on the BPCI initiative, we refer readers to the CMS’ Center for Medicare and Medicaid Innovation’s website at: http://innovation.cms.gov/initiatives/Bundled-Payments/index.html and to section IV.H.4. of the preamble of the FY 2013 IPPS/LTCH PPS final rule (77 FR 53341 through 53343).

The participation of hospitals in the BPCI initiative concluded on September 30, 2018. The participation of hospitals in the BPCI Advanced model started on October 1, 2018. The BPCI Advanced model, tested under the authority of section 1115A of the Act, is comprised of a single payment and risk track, which bundles payments for multiple services beneficiaries receive during a Clinical Episode. Acute care hospitals may participate in BPCI Advanced in one of two capacities: As a model Participant or as a downstream Episode Initiator. Regardless of the capacity in which they participate in the BPCI Advanced model, participating acute care hospitals will continue to receive IPPS payments under section 1886(d) of the Act. Acute care hospitals that are Participants also assume financial and quality performance accountability for Clinical Episodes in the form of a reconciliation payment. For additional information on the BPCI Advanced model, we refer readers to the BPCI Advanced web page on the CMS Center for Medicare and Medicaid Innovation’s website at: https://innovation.cms.gov/initiatives/BPCI-Advanced. Consistent with our policy for FY 2021, and consistent with how we have treated hospitals that participated in the BPCI Initiative, for FY 2022, we continue to believe it is appropriate to include all applicable data from the subsection (d) hospitals participating in the BPCI Advanced model in our IPPS payment modeling and ratesetting calculations because, as noted previously, these hospitals are still receiving IPPS payments under section 1886(d) of the Act. Consistent with the FY 2021 IPPS/LTCH PPS final rule, we are also proposing to include all applicable data from subsection (d) hospitals participating in the Comprehensive Care for Joint Replacement (CJR) Model in our IPPS payment modeling and ratesetting calculations. The charges for each of the 19 cost groups for each claim were standardized to remove the effects of differences in area wage levels, IME and DSH payments, and for hospitals located in Alaska and Hawaii, the applicable cost-of-living adjustment.

Because hospital charges include charges for both operating and capital costs, we standardized total charges to remove the effects of differences in geographic adjustment factors, cost-of-living adjustments, and DSH payments under the capital IPPS as well. Charges were then summed by MS–DRG for each of the 19 cost groups so that each MS–DRG had 19 standardized charge totals. Statistical outliers were then removed. These charges were then adjusted to cost by applying the proposed national average CCRs developed from the FY 2016 cost report data, consistent with our proposed FY 2022 ratesetting discussed in section II.A.4 of the Addendum of this proposed rule.

The 19 cost centers that we used in the proposed relative weight calculation are shown in a supplemental data file, Cost Center HCRIS Lines Supplemental Data File, posted via the internet on the CMS website for this proposed rule and available at http://www.cms.hhs.gov/Medicare-Medicaid-fee-for-Service-Payment/AcuteInpatientPPS/index.html. The supplemental data file shows the lines on the cost report and the corresponding revenue codes that were used to create the 19 national cost center CCRs. If we receive comments about the groupings in this supplemental data file, we may consider these comments as we finalize our policy.

Consistent with historical practice, we account for rare situations of non-monotonicity in a base MS–DRG and its severity levels, where the mean cost in the higher severity level is less than the mean cost in the lower severity level, in determining the relative weights for the different severity levels. If there are initially non-monotonic relative weights
in the same base DRG and its severity levels, then we combine the cases that group to the specific non-monotonic MS–DRGs for purposes of relative weight calculations. For example, if there are two non-monotonic MS–DRGs, combining the cases across those two MS–DRGs results in the same relative weight for both MS–DRGs. The relative weight calculated using the combined cases for those severity levels is monotonic, effectively removing any non-monotonicity with the base DRG and its severity levels. For this FY 2022 proposed rule, this calculation was applied to address non-monotonicity for cases that grouped to MS–DRG 504 and MS–DRG 505. We note that cases were also combined in calculating the relative weights for these two MS–DRGs for FY 2021. In the supplemental file titled AOR/BOR File, we include statistics for the affected MS–DRGs both separately and with cases combined.

We are inviting public comments on our proposals related to recalibration of the proposed FY 2022 relative weights and the changes in relative weights from FY 2021.

b. Relative Weight Calculation for MS–DRG 018

As discussed in the FY 2021 IPPS/LTCPPS final rule (85 FR 58600), we created MS–DRG 018 for cases that include procedures describing CAR T-cell therapies, which were reported using ICD–10–PCS procedure codes XW033C3 or XW043C3. We refer the reader to section IL.D.2. of this proposed rule for discussion of the procedure codes for CAR T-cell and non-CAR T-cell therapies and other immunotherapies that we are proposing for assignment to MS–DRG 018 for FY 2022.

In the FY 2021 IPPS/LTCPPS final rule, we finalized our proposals to modify our existing relative weight methodology to ensure that the relative weight for new MS–DRG 018 appropriately reflects the relative resources required for providing CAR T-cell therapy outside of a clinical trial, while still accounting for the clinical trial cases in the overall average cost for all MS–DRGs, with additional refinements in response to comments. For cases that group to MS–DRG 018, we finalized to not include claims determined to be clinical trial claims that group to new MS–DRG 018 when calculating the average cost for new MS–DRG 018 that is used to calculate the relative weight for this MS–DRG, with the additional refinements that (a) when the CAR T-cell therapy product is purchased in the usual manner, but the case involves a clinical trial of a different product, the claim will be included when calculating the average cost for new MS–DRG 018 to the extent such claims can be identified in the historical data, and (b) when there is expanded access use of immunotherapy, these cases will not be included when calculating the average cost for new MS–DRG 018 to the extent such claims can be identified in the historical data (85 FR 58600). We also finalized our proposal to calculate an adjustment to account for the CAR T-cell therapy cases determined to be clinical trial cases, as described in the FY 2021 IPPS/LTCPPS final rule, with the additional refinement of including revenue center 891 in our calculation of standardized drug charges for MS–DRG 018.

Applying this finalized methodology, based on the March 2020 update of the FY 2019 MedPAR file for the FY 2021 IPPS/LTCHPPS final rule, we estimated that the average costs of CAR T-cell therapy cases determined to be clinical trial cases ($46,062) were 17 percent of the average costs of CAR T-cell therapy cases determined to be non-clinical trial cases ($276,042), and therefore, in calculating the national average cost per case for purposes of the FY 2021 IPPS/LTCHPPS final rule, each case identified as a clinical trial case was adjusted by 0.17. We also noted that we were applying this adjustor for cases determined to be CAR T-cell therapy clinical trial cases for purposes of budget neutrality and outlier simulations. We refer the reader to the FY 2021 IPPS/LTCHPPS final rule for complete discussion of our finalized modifications to the relative weight calculation for MS–DRG 018.

Since we are proposing to use the same FY 2019 MedPAR claims data for FY 2022 ratessetting that we did for the FY 2021 final rule, we are also proposing to continue to use the same process to identify clinical trial claims in the FY 2019 MedPAR for purposes of calculating the FY 2022 relative weights. We continue to use the proxy of standardized drug charges of less than $373,000, which was the average sales price of KYMRIAH and YESCARTA, which are the two CAR T-cell biological products in the MedPAR data used for the FY 2021 final rule and this proposed rule. Using the same methodology from the FY 2021 IPPS/LTCPPS final rule, we are proposing to apply an adjustment to account for the CAR T cell therapy cases identified as clinical trial cases in calculating the national average standardized cost per case that is used to calculate the relative weights for all MS–DRGs:

- Calculate the average cost for cases to be assigned to new MS–DRG 018 that contain ICD–10–CM diagnosis code Z00.6 or contain standardized drug charges of less than $373,000.
- Calculate the average cost for cases to be assigned to new MS–DRG 018 that do not contain ICD–10–CM diagnosis code Z00.6 or standardized drug charges of at least $373,000.
- Calculate an adjustor by dividing the average cost calculated in step 1 by the average cost calculated in step 2.

Apply the adjustor calculated in step 3 to the cases identified as clinical trial cases and (b) when there is expanded access use of immunotherapy, these cases will be included when calculating the average cost for cases determined to be clinical trial cases. However, we continue to believe to the best of our knowledge there are no claims in the historical data (FY 2019 MedPAR) used in the calculation of the adjustment for cases involving a clinical trial of a different product, and to the extent the historical data contain claims for cases involving expanded access use of immunotherapy we believe those claims would have drug charges less than $373,000. Consistent with our proposal to use the FY 2019 data for the FY 2022 ratessetting, we are also proposing to calculate this adjustor based on the March 2020 update of the FY 2019 MedPAR file for purposes of establishing the FY 2022 relative weights. Accordingly, as we did for FY 2021, we are proposing to adjust the transfer-adjusted case count for MS–DRG 018 by applying the proposed adjustor of 17 percent to the applicable clinical trial cases, and to use this adjusted case count for MS–DRG 018 in calculating the national average cost per case, which is used in the calculation of the relative weights. Therefore, in calculating the national average cost per case for purposes of this proposed rule, each case identified as a clinical trial case was adjusted by 17 percent. As we did for FY 2021, we are proposing to apply this same adjustor for the applicable cases that group to MS–DRG 018 for purposes of budget neutrality and outlier simulations.

As discussed in section I.F. of this proposed rule, we are also soliciting
comments on an alternative approach of using the same FY 2020 data that we would ordinarily use for purposes of the FY 2022 rulemaking, which we may consider finalizing for FY 2022 based on consideration of comments received. We note that using the methodology as finalized in the FY 2021 IPPS/LTCH PPS final rule, we calculated an adjustor of 0.25 based on this alternative approach of using the FY 2020 MedPAR file.

3. Development of Proposed National Average CCRs

Consistent with our proposal to use the FY 2019 data for the FY 2022 ratesetting, as discussed earlier in this section, we are proposing to continue to use the national average CCRs that were calculated for the FY 2021 final rule using that same data. Specifically, we calculated these national average CCRs as follows:

Using the FY 2018 cost report data, we removed CAHs, Indian Health Service hospitals, all-inclusive rate hospitals, and cost reports that represented time periods of less than 1 year (365 days). We included hospitals located in Maryland because we include their charges in our claims database. Then we created CCRs for each provider for each cost center (see the supplemental data file for line items used in the calculations) and removed any CCRs that were greater than 10 or less than 0.01. We normalized the departmental CCRs by dividing the CCR for each department by the total CCR for the hospital for the purpose of trimming the data. Then we took the logs of the normalized cost center CCRs and removed any cost center CCRs where the log of the cost center CCR was greater or less than the mean log plus/minus 3 times the standard deviation for the log of that cost center CCR. Once the cost report data were trimmed, we calculated a Medicare-specific CCR. The Medicare-specific CCR was determined by taking the Medicare charges for each line item from Worksheet D–3 and deriving the Medicare-specific costs by applying the hospital-specific departmental CCRs to the Medicare-specific charges for each line item from Worksheet D–3. Once each hospital’s Medicare-specific costs were established, we summed the total Medicare-specific costs and divided by the sum of the total Medicare-specific charges to produce national average, charge-weighted CCRs.

After we multiplied the total charges for each MS–DRG in each of the 19 cost centers by the corresponding national average CCR, we summed the 19 “costs” across each MS–DRG to produce a total standardized cost for the MS–DRG. The average standardized cost for each MS–DRG was then computed as the total standardized cost for the MS–DRG divided by the transfer-adjusted case count for the MS–DRG. The average cost for each MS–DRG was then divided by the national average standardized cost per case to determine the proposed relative weight.

The proposed FY 2022 cost-based relative weights were then normalized by an adjustment factor of 1.820783 so that the average case weight after recalibration was equal to the average case weight before recalibration. The normalization adjustment is intended to ensure that recalibration by itself neither increases nor decreases total payments under the IPPS, as required by section 1886(d)(4)(C)(iii) of the Act.

The proposed 19 national average CCRs for FY 2022 are as follows:

<table>
<thead>
<tr>
<th>Group</th>
<th>CCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routine Days</td>
<td>0.421</td>
</tr>
<tr>
<td>Intensive Days</td>
<td>0.344</td>
</tr>
<tr>
<td>Drugs</td>
<td>0.187</td>
</tr>
<tr>
<td>Supplies &amp; Equipment</td>
<td>0.297</td>
</tr>
<tr>
<td>Implantable Devices</td>
<td>0.293</td>
</tr>
<tr>
<td>Inhalation Therapy</td>
<td>0.147</td>
</tr>
<tr>
<td>Therapy Services</td>
<td>0.288</td>
</tr>
<tr>
<td>Anesthesia</td>
<td>0.071</td>
</tr>
<tr>
<td>Labor &amp; Delivery</td>
<td>0.359</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group</th>
<th>CCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Room</td>
<td>0.167</td>
</tr>
<tr>
<td>Cardiology</td>
<td>0.094</td>
</tr>
<tr>
<td>Cardiac Catheterization</td>
<td>0.1</td>
</tr>
<tr>
<td>Laboratory</td>
<td>0.107</td>
</tr>
<tr>
<td>Radiology</td>
<td>0.136</td>
</tr>
<tr>
<td>MRIs</td>
<td>0.07</td>
</tr>
<tr>
<td>CT Scans</td>
<td>0.034</td>
</tr>
<tr>
<td>Emergency Room</td>
<td>0.147</td>
</tr>
<tr>
<td>Blood and Blood Products</td>
<td>0.271</td>
</tr>
<tr>
<td>Other Services</td>
<td>0.343</td>
</tr>
</tbody>
</table>
Since FY 2009, the relative weights have been based on 100 percent cost weights based on our MS–DRG grouping system. When we recalibrated the DRG weights for previous years, we set a threshold of 10 cases as the minimum number of cases required to compute a reasonable weight. We are proposing to use that same case threshold in recalibrating the proposed MS–DRG relative weights for FY 2022. Using data from the FY 2019 MedPAR file, there were 7 MS–DRGs that contain fewer than 10 cases. For FY 2022, because we do not have sufficient MedPAR data to set accurate and stable cost relative weights for these low-volume MS–DRGs, we are proposing to compute relative weights for the low-volume MS–DRGs by adjusting their final FY 2021 relative weights by the percentage change in the average weight of the cases in other MS–DRGs from FY 2021 to FY 2022. The crosswalk table is as follows.

<table>
<thead>
<tr>
<th>Low-Volume MS-DRG</th>
<th>MS-DRG Title</th>
<th>Crosswalk to MS-DRG</th>
</tr>
</thead>
<tbody>
<tr>
<td>789</td>
<td>Neonates, Died or Transferred to Another Acute Care Facility</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
<tr>
<td>790</td>
<td>Extreme Immaturity or Respiratory Distress Syndrome, Neonate</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
<tr>
<td>791</td>
<td>Prematurity with Major Problems</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
<tr>
<td>792</td>
<td>Prematurity without Major Problems</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
<tr>
<td>793</td>
<td>Full-Term Neonate with Major Problems</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
<tr>
<td>794</td>
<td>Neonate with Other Significant Problems</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
<tr>
<td>795</td>
<td>Normal Newborn</td>
<td>Final FY 2021 relative weight (adjusted by percent change in average weight of the cases in other MS-DRGs)</td>
</tr>
</tbody>
</table>

F. Add-On Payments for New Services and Technologies for FY 2022

1. Background

Sections 1886(d)(5)(K) and (L) of the Act establish a process of identifying and ensuring adequate payment for new medical services and technologies (sometimes collectively referred to in this section as “new technologies”) under the IPPS. Section 1886(d)(5)(K)(vi) of the Act specifies that a medical service or technology will be considered new if it meets criteria established by the Secretary after notice and opportunity for public comment. Section 1886(d)(5)(K)(ii)(I) of the Act specifies that a new medical service or technology may be considered for new technology add-on payment if, based on the estimated costs incurred with respect to discharges involving such service or technology, the DRG prospective payment rate otherwise applicable to such discharges under this subsection is inadequate. We note that, beginning with discharges occurring in FY 2008, CMS transitioned from CMS–DRGs to MS–DRGs. The regulations at 42 CFR 412.87 implement these provisions and 42 CFR 412.87(b) specifies three criteria for a new medical service or technology to receive the additional payment: (1) The medical service or technology must be new; (2) the medical service or technology must be costly such that the DRG rate otherwise applicable to discharges involving the medical service or technology is determined to be inadequate; and (3) the service or technology must demonstrate a substantial clinical improvement over existing services or technologies. In addition, certain transformative new devices and antimicrobial products may qualify under an alternative inpatient new technology add-on payment pathway, as set forth in the regulations at § 412.87(c) and (d). We note that section 1886(d)(5)(K)(ii)(I) of the Act requires that the Secretary establish a mechanism to recognize the costs of new medical services and technologies under the payment system established under that subsection, which establishes the system for paying for the operating costs of inpatient hospital services. The system of payment for capital costs is established under section 1886(g) of the Act. Therefore, as discussed in prior rulemaking (72 FR 47307 through 47308), we do not include capital costs in the add-on payments for a new medical service or technology or make new technology add-on payments under the IPPS for capital-related costs. In this rule, we highlight some of the major statutory and regulatory provisions relevant to the new technology add-on payment criteria, as well as other information. For a complete discussion of the new technology add-on payment criteria, we refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51572 through 51574), FY 2020 IPPS/LTCH PPS final rule (84 FR 42288 through 42300) and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58736 through 58742).

a. New Technology Add On Payment Criteria

(1) Newness Criterion

Under the first criterion, as reflected in § 412.87(b)(2), a specific medical service or technology will no longer be considered “new” for purposes of new medical service or technology add-on payments after CMS has recalibrated the MS–DRGs, based on available data, to reflect the cost of the technology. We note that we do not consider a service or technology to be new if it is substantially similar to one or more existing technologies. That is, even if a medical product receives a new FDA approval or clearance, it may not necessarily be considered “new” for purposes of new technology add-on payments if it is “substantially similar” to another medical product that was approved or cleared by FDA and has been on the market for more than 2 to 3 years. In the FY 2010 IPPS/RY 2010 LTCH PPS final rule (74 FR 43813 through 43814), we established criteria for evaluating whether a new technology is substantially similar to an existing technology, specifically: (1)
Whether a product uses the same or a similar mechanism of action to achieve a therapeutic outcome; (2) whether a product is assigned to the same or a different MS–DRG; and (3) whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population. If a technology meets all three of these criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments. For a detailed discussion of the criteria for substantial similarity, we refer readers to the FY 2006 IPPS final rule (70 FR 47351 through 47352) and the FY 2010 IPPS/LTCH PPS final rule (74 FR 43813 through 43814).

(2) Cost Criterion

Under the second criterion, § 412.87(b)(3) further provides that, to be eligible for the add-on payment for new medical services or technologies, the MS–DRG prospective payment rate otherwise applicable to discharges involving the new medical service or technology must be assessed for adequacy. Under the cost criterion, consistent with the formula specified in section 1886(d)(5)(K)(iii)(I) of the Act, to assess the adequacy of payment for a new technology paid under the applicable MS–DRG prospective payment rate, we evaluate whether the charges of the cases involving a new medical service or technology will exceed a threshold amount that is the lesser of 75 percent of the standardized charge (using FY 2019 claims data) or 75 percent of one standard deviation beyond the geometric mean standardized charge for all cases in the MS–DRG to which the new medical service or technology is assigned (or the case-weighted average of all relevant MS–DRGs if the new medical service or technology occurs in many different MS–DRGs). The MS–DRG threshold amounts generally used in evaluating new technology add-on payment applications for FY 2022 are presented in a data file that is available, along with the other data files associated with this FY 2022 proposed rule, by clicking on the FY 2022 IPPS Proposed Rule Home Page at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index. We note, for the reasons discussed in section I.F. of the preamble of this proposed rule, we are proposing to use the FY 2019 MedPAR claims data where we ordinarily would have used the FY 2020 MedPAR claims data for purposes of the final thresholds for purposes of the final thresholds for applications for new technology add-on payments for FY 2023 in the FY 2022 IPPS/LTCH PPS final rule. We are making available the threshold values calculated using the FY 2020 claims data at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS. In the September 7, 2001 final rule that established the new technology add-on payment regulations (66 FR 46917), we discussed that applicants should submit a significant sample of data to demonstrate that the medical service or technology meets the high-cost threshold. Specifically, applicants should submit a sample of sufficient size to enable us to undertake an initial validation and analysis of the data. We also discussed in the September 7, 2001 final rule (66 FR 46917) the issue of whether the Health Insurance Portability and Accountability Act (HIPAA) Privacy Rule at 45 CFR parts 160 and 164 applies to claims information that providers submit with applications for new medical service or technology add-on payments. We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51573) for complete information on this issue.

(3) Substantial Clinical Improvement Criterion

Under the third criterion at § 412.87(b)(1), a medical service or technology must represent an advance that substantially improves, relative to technologies previously available, the diagnosis or treatment of Medicare beneficiaries. In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42288 through 42292), we prospectively codified in our regulations at § 412.87(b) the following aspects of how we evaluate substantial clinical improvement for purposes of new technology add-on payments under the IPPS:

- The totality of the circumstances is considered when making a determination that a new medical service or technology represents an advance that substantially improves, relative to services or technologies previously available, the diagnosis or treatment of Medicare beneficiaries.
- A determination that a new medical service or technology represents an advance that substantially improves, relative to services or technologies previously available, the diagnosis or treatment of Medicare beneficiaries may—
  • The new medical service or technology offers a treatment option for a patient population unresponsive to, or
ineligible for, currently available treatments;
++ The new medical service or technology offers the ability to diagnose a medical condition in a patient population where that medical condition is currently undetectable, or offers the ability to diagnose a medical condition earlier in a patient population than allowed by currently available methods, and there must also be evidence that use of the new medical service or technology to make a diagnosis affects the management of the patient;
++ The use of the new medical service or technology significantly improves clinical outcomes relative to services or technologies previously available as demonstrated by one or more of the following: A reduction in at least one clinically significant adverse event, including a reduction in mortality or a clinically significant complication; a decreased rate of at least one subsequent diagnostic or therapeutic intervention; a decreased number of future hospitalizations or physician visits; a more rapid beneficial resolution of the disease process treatment including, but not limited to, a reduced length of stay or recovery time; an improvement in one or more activities of daily living; an improved quality of life; or, a demonstrated greater medication adherence or compliance; or
++ The totality of the circumstances otherwise demonstrates that the new medical service or technology substantially improves, relative to technologies previously available, the diagnosis or treatment of Medicare beneficiaries.

• Evidence from the following published or unpublished information sources from within the United States or elsewhere may be sufficient to establish that a new medical service or technology represents an advance that substantially improves, relative to services or technologies previously available, the diagnosis or treatment of Medicare beneficiaries: Clinical trials, peer reviewed journal articles; study results; meta-analyses; consensus statements; white papers; patient surveys; case studies; reports; systematic literature reviews; letters from major healthcare associations; editorials and letters to the editor; and public comments. Other appropriate information sources may be considered.

• The medical condition diagnosed or treated by the new medical service or technology may have a low prevalence among Medicare beneficiaries.

• TDPs and LDAs, a medical service or technology that may represent an advance that substantially improves, relative to services or technologies previously available, the diagnosis or treatment of a subpopulation of patients with the medical condition diagnosed or treated by the new medical service or technology. We refer the reader to the FY 2020 IPPS/LTCH PPS final rule for additional discussion of the evaluation of substantial clinical improvement for purposes of new technology add-on payments under the IPPS.

We note, consistent with the discussion in the FY 2003 IPPS final rule (67 FR 50015), that although we are affiliated with the FDA and we do not question the FDA’s regulatory responsibility for decisions related to marketing authorization (for example, approval, clearance, etc.), we do not rely upon FDA criteria in our determination of what drugs, devices, or technologies qualify for new technology add-on payments under Medicare. Our criteria do not depend on the standard of safety and efficacy on which the FDA relies but on demonstration of substantial clinical improvement in the Medicare population (particularly patients over age 65).

c. Alternative Inpatient New Technology Add-On Payment Pathway

Beginning with applications for FY 2021 new technology add-on payments, under the regulations at § 412.87(c), a medical device that is part of FDA’s Breakthrough Devices Program may qualify for the new technology add-on payment under an alternative pathway. Additionally, under the regulations at § 412.87(d) for certain antimicrobial products, beginning with FY 2021, a drug that is designated by the FDA as a Qualified Infectious Disease Product (QIDP), and, beginning with FY 2022, a drug that is approved by the FDA under the Limited Population Pathway for Antibacterial and Antifungal Drugs (LPAD), may also qualify for the new technology add-on payment under an alternative pathway. We refer the reader to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42292 through 42297) and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58737 through 58739) for a complete discussion on this policy. We note that a technology is not required to have the specified FDA designation at the time the new technology add-on payment application is submitted. CMS will review the application based on the information provided by the applicant under the alternative pathway specified by the applicant. However, to receive approval for the new technology add-on payment under that alternative pathway, the technology must have the applicable FDA designation and meet all other requirements in the regulations in § 412.87(c) and (d), as applicable.

(1) Alternative Pathway for Certain Transformative New Devices

For applications received for new technology add-on payments for FY 2021 and subsequent fiscal years, if a medical device is part of FDA’s Breakthrough Devices Program and received FDA marketing authorization, it will be considered new and not substantially similar to existing technology for purposes of the new technology add-on payment under the IPPS, and will not need to meet the requirement under § 412.87(b)(1) that it represent an advance that substantially improves, relative to technologies previously available, the diagnosis or treatment of Medicare beneficiaries. This policy is codified at § 412.87(c).

Under this alternative pathway, a medical device that has received FDA marketing authorization (that is, has been approved or cleared by, or had a De Novo classification request granted by, FDA) and that is part of FDA’s Breakthrough Devices Program will need to meet the cost criterion under § 412.87(b)(3), and will be considered new as reflected in § 412.87(c). We note, in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58734 through 58736), that although we are affiliated with the FDA and we do not question the FDA’s regulatory responsibility for decisions related to marketing authorization for the indication covered by the Breakthrough Devices Program designation, we refer the reader to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58734 through 58736) for a complete discussion regarding this clarification.

(2) Alternative Pathway for Certain Antimicrobial Products

For applications received for new technology add-on payments for certain antimicrobial products, beginning with FY 2021, if a technology is designated by FDA as a QIDP and received FDA marketing authorization, and, beginning with FY 2022, if a drug is approved under FDA’s LPAD pathway and used for the indication approved under the LPAD pathway, it will be considered new and not substantially similar to an existing technology for purposes of new technology add-on payments and will not need to meet the requirement that it represent an advance that substantially improves, relative to technologies previously available, the diagnosis or treatment of Medicare beneficiaries. We codified this policy at § 412.87(d).

Under this alternative pathway for QIDPs and LPADs, a medical product that has received FDA marketing authorization and is designated by FDA
as a QIDP or approved under the LPAD pathway will need to meet the cost criterion under § 412.87(b)(3), and will be considered new as reflected in § 412.87(d)(2).

We refer the reader to the FY 2020 IPPS/LTPC PPS final rule (84 FR 42292 through 42297) and FY 2021 IPPS/LTPC PPS final rule (85 FR 58737 through 58739) for a complete discussion on this policy. We note, in the FY 2021 IPPS/ LTPC PPS final rule (85 FR 58737 through 58739), that we clarified that a new medical product seeking approval for the new technology add-on payment under the alternative pathway for QIDPs must receive marketing authorization for the indication covered by the QIDP designation. We also finalized our policy to expand our alternative new technology add-on payment pathway for certain antimicrobial products to include products approved under the LPAD pathway and used for the indication approved under the LPAD pathway.

d. Additional Payment for New Medical Service or Technology

The new medical service or technology add-on payment policy under the IPPS provides additional payments for cases with relatively high costs involving eligible new medical services or technologies, while preserving some of the incentives inherent under an average-based prospective payment system. The payment mechanism is based on the cost to hospitals for the new medical service or technology. As noted previously, we do not include capital costs in the add-on payments for a new medical service or technology or make new technology add-on payments under the IPPS for capital-related costs (72 FR 47307 through 47308).

For discharges occurring before October 1, 2019, under § 412.88, if the costs of the discharge (determined by applying operating cost-to-charge ratios (CCRs) as described in § 412.84(h)) exceed the full DRG payment (including payments for IME and DSH, but excluding outlier payments), CMS made an add-on payment equal to the lesser of: (1) 50 percent of the costs of the new medical service or technology; or (2) 50 percent of the amount by which the costs of the case exceed the standard DRG payment.

Beginning with discharges on or after October 1, 2019, for the reasons discussed in the FY 2020 IPPS/LTPC PPS final rule (84 FR 42297 through 42300), we finalized an increase in the new technology add-on payment percentage, as reflected at § 412.88(a)(2)(ii). Specifically, for a new technology other than a medical product designated by FDA as a QIDP, beginning with discharges on or after October 1, 2019, if the costs of a discharge involving a new technology (determined by applying CCRs as described in § 412.84(h)) exceed the full DRG payment (including payments for IME and DSH, but excluding outlier payments), Medicare will make an add-on payment equal to the lesser of: (1) 65 percent of the costs of the new medical service or technology; or (2) 65 percent of the amount by which the costs of the case exceed the standard DRG payment. For a new technology that is a medical product designated by FDA as a QIDP, beginning with discharges on or after October 1, 2019, if the costs of a discharge involving a new technology (determined by applying CCRs as described in § 412.84(h)) exceed the full DRG payment (including payments for IME and DSH, but excluding outlier payments), Medicare will make an add-on payment equal to the lesser of: (1) 75 percent of the costs of the new medical service or technology; or (2) 75 percent of the amount by which the costs of the case exceed the standard DRG payment. For a new technology that is a medical product approved under FDA’s LPAD pathway, beginning with discharges on or after October 1, 2020, if the costs of a discharge involving a new technology (determined by applying CCRs as described in § 412.84(h)) exceed the full DRG payment (including payments for IME and DSH, but excluding outlier payments), Medicare will make an add-on payment equal to the lesser of: (1) 75 percent of the costs of the new medical service or technology; or (2) 75 percent of the amount by which the costs of the case exceed the standard DRG payment.

Consistent with our longstanding practice of how CMS considers under our new technology add-on payment policy, we finalized a technical clarification to the regulation to indicate that new technologies must receive FDA marketing authorization (such as pre-market approval (PMA); 510(k) clearance; the granting of a De Novo classification request, or approval of a New Drug Application (NDA)) by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. In the FY 2021 IPPS final rule, to more precisely describe the various types of FDA approvals, clearances and classifications that we consider under our new technology add-on payment policy, we finalized a technical clarification to the regulation to indicate that new technologies must receive FDA marketing authorization (such as pre-market approval (PMA); 510(k) clearance; the granting of a De Novo classification request, or approval of a New Drug Application (NDA)) by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. We refer the reader to the FY 2020 IPPS/LTPC PPS final rule (84 FR 42292 through 42300) for complete discussion on the increase in the new technology add-on payment beginning with discharges on or after October 1, 2019.

Section 503(d)(2) of Public Law 108–173 provides that there shall be no reduction or adjustment in aggregate payments under the IPPS due to add-on payments for new medical services and technologies. Therefore, in accordance with section 503(d)(2) of Public Law 108–173, add-on payments for new medical services or technologies for FY 2005 and subsequent years have not been subjected to budget neutrality.
As we indicated in the FY 2009 IPPS final rule (73 FR 48554), we invite any product developers or manufacturers of new medical services or technologies to contact the agency early in the process of product development if they have questions or concerns about the evidence that would be needed later in the development process for the agency’s coverage decisions for Medicare.

The CTI aims to provide useful information on its activities and initiatives to stakeholders, including Medicare beneficiaries, advocates, medical product manufacturers, providers, and health policy experts. Stakeholders with further questions about Medicare’s coverage, coding, and payment processes, or who want further guidance about how they can navigate these processes, can contact the CTI at CTI@cms.hhs.gov.

g. Application Information for New Medical Services or Technologies

Applicants for add-on payments for new medical services or technologies for FY 2023 must submit a formal request, including a full description of the clinical applications of the medical service or technology and the results of any clinical evaluations demonstrating that the new medical service or technology represents a substantial clinical improvement (unless the application is under one of the alternative pathways as previously described), along with a significant sample of data to demonstrate that the medical service or technology meets the high-cost threshold. Complete application information, along with final deadlines for submitting a full application, will be posted as it becomes available on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/newtech.html. To allow interested parties to identify the new medical services or technologies under review before the publication of the proposed rule for FY 2023, the CMS website also will post the tracking forms completed by each applicant. We note that the burden associated with this information collection requirement is the time and effort required to collect and submit the data in the formal request for add-on payments for new medical services and technologies to CMS. The aforementioned burden is subject to the PRA and approved under OMB control number 0938–1347.

As discussed previously, in the FY 2020 IPPS/LTCH PPS final rule, we adopted a virtual town meeting new technology add-on payment pathway for certain transformative new devices and for Qualified Infectious Disease Products, as set forth in the regulations at § 412.87(c) and (d). The change in burden associated with these changes to the new technology add-on payment application process were discussed in a revision of the information collection requirement (ICR) request currently approved under OMB control number 0938–1347. In accordance with the implementing regulations of the PRA, we detailed the revisions of the ICR and published the required 60-day notice on August 15, 2019 (84 FR 41723) and 30-day notice on December 17, 2019 (84 FR 68936) to solicit public comments.

2. Public Input Before Publication of a Notice of Proposed Rulemaking on Add-On Payments

Section 1886(d)(5)(K)(viii) of the Act, as amended by section 503(b)(2) of Public Law 106–173, provides for a mechanism for public input before publication of a notice of proposed rulemaking regarding whether a medical service or technology represents a substantial clinical improvement or advancement. The process for evaluating new medical service and technology applications requires the Secretary to—

- Provide, before publication of a proposed rule, for public input regarding whether a service or technology represents an advance in medical technology that substantially improves the diagnosis or treatment of Medicare beneficiaries;
- Make public and periodically update a list of the services and technologies for which applications for add-on payments are pending;
- Accept comments, recommendations, and data from the public regarding whether a service or technology represents a substantial clinical improvement; and
- Provide, before publication of a proposed rule, for a meeting at which organizations representing hospitals, physicians, manufacturers, and any other interested party may present comments, recommendations, and data regarding whether a new medical service or technology represents a substantial clinical improvement to the clinical staff of CMS.

In order to provide an opportunity for public input regarding add-on payments for new medical services and technologies for FY 2022 prior to publication of this FY 2022 IPPS/LTCH PPS proposed rule, we published a notice in the Federal Register on October 16, 2020 (85 FR 65815), and held a virtual town meeting on December 15 and 16, 2020. In the announcement notice for the meeting,
we stated that the opinions and presentations provided during the meeting would assist us in our evaluations of applications by allowing public discussion of the substantial clinical improvement criterion for the FY 2022 new medical service and technology add-on payment applications before the publication of the FY 2022 IPPS/LTCH PPS proposed rule.

Approximately 330 individuals registered to attend the 2-day virtual town hall meeting. We posted the recordings of the 2-day virtual town hall on the CMS web page at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/newtech. We considered each applicant’s presentation made at the town hall meeting, as well as written comments received by the December 28, 2020 deadline, in our evaluation of the new technology add on payment applications for FY 2022 in the development of this FY 2022 IPPS/LTCH PPS proposed rule.

In response to the published notice and the December 15–16, 2020 New Technology Town Hall meeting, we received written comments regarding the applications for FY 2022 new technology add on payments. As explained earlier and in the Federal Register notice announcing the New Technology Town Hall meeting (85 FR 65815 through 65817), the purpose of the meeting was specifically to discuss the substantial clinical improvement criterion with regard to pending new technology add-on payment applications for FY 2022. Therefore, we are not summarizing those written comments in this proposed rule that are unrelated to the substantial clinical improvement criterion. In section II.H.5. of the preamble of this proposed rule, we are summarizing comments regarding individual applications, or, if applicable, indicating that there were no comments received in response to the New Technology Town Hall meeting notice or New Technology Town Hall meeting, at the end of each discussion of the individual applications.

3. ICD–10–PCS Section “X” Codes for Certain New Medical Services and Technologies

As discussed in the FY 2016 IPPS/LTCH PPS final rule (80 FR 49434), the ICD–10–PCS includes a new section containing the new Section “X” codes, which began being used with discharges occurring on or after October 1, 2015. Decisions regarding changes to ICD–10–PCS Section “X” codes will be handled in the same manner as the decisions for all of the other ICD–10–PCS code changes. That is, proposals to create, delete, or revise Section “X” codes under the ICD–10–PCS structure will be referred to the ICD–10 Coordination and Maintenance Committee. In addition, several of the new medical services and technologies that have been, or may be, approved for new technology add on payments may now, and in the future, be assigned a Section “X” code within the structure of the ICD–10–PCS. We posted ICD–10–PCS Guidelines on the CMS website at: https://www.cms.gov/medicare/icd-10/2021-icd-10-PCS, including guidelines for ICD–10–PCS Section “X” codes. We encourage providers to view the material provided on ICD–10–PCS Section “X” codes.


In this section of the proposed rule, we discuss the proposed FY 2022 status of 23 technologies approved for FY 2021 new technology add-on payments, as set forth in the tables that follow. In general, we extend new technology add-on payments for an additional year only if the 3-year anniversary date of the product’s entry onto the U.S. market occurs in the latter half of the upcoming fiscal year. We refer the reader to section II.F.6.b.(1) of the preamble of this proposed rule for discussion of CONTEPO, which we conditionally approved for FY 2021 new technology add-on payments under the alternative pathway for certain antimicrobial products, subject to the technology receiving FDA marketing authorization by July 1, 2021. As of the time of the development of this proposed rule, CONTEPO has not yet received FDA marketing authorization.

a. Proposed Continuation of New Technology Add-On Payments for FY 2022 for Technologies Still Considered To Be New

In the table in this section of the proposed rule, we present our proposals to continue the new technology add-on payment for FY 2022 for those technologies that were approved for the new technology add-on payment for FY 2021 and which would still considered “new” for purposes of new technology add-on payments for FY 2022.

Our policy is that a medical service or technology may continue to be considered “new” for purposes of new technology add-on payments within 2 or 3 years after the product’s point at which data begin to become available reflecting the inpatient hospital code assigned to the new service or technology. Our practice has been to begin and extend new technology add-on payments on the basis of a fiscal year, and we have generally followed a guideline that uses a 6-month window before and after the start of the fiscal year to determine whether to extend the new technology add-on payment for an additional fiscal year. In general, we extend new technology add-on payments for an additional year only if the 3-year anniversary date of the product’s entry onto the U.S. market occurs in the latter half of the fiscal year (70 FR 47362).

The table in this section lists the technologies for which we are proposing to continue making new technology add-on payments for FY 2022 because they would still be considered new for purposes of new technology add-on payments. This table also presents the newness start date, new technology add-on payment start date, relevant final rule citations from prior fiscal years, proposed maximum add-on payment amount, and coding assignments. We refer readers to the cited final rules in the following table for a complete discussion of the new technology add-on payment application, coding and payment amount for these technologies, including the applicable indications and discussion of the newness start date.
<table>
<thead>
<tr>
<th>Technology</th>
<th>FDA/ Newness Start Date</th>
<th>NTAP Start Date</th>
<th>Proposed NTAP Status for FY 2022</th>
<th>Previous Final Rule Citations</th>
<th>Proposed Maximum NTAP Amount for FY 2022</th>
<th>Coding Used to Identify Cases Eligible for NTAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balversa™</td>
<td>4/12/2019</td>
<td>10/1/2019</td>
<td>Propose to continue because 3-year anniversary date (4/12/2022) will occur in the second half of FY 2022</td>
<td>(84 FR 42237 through 42242) and (85 FR 58616)</td>
<td>$3,563.23</td>
<td>XW0DXL5</td>
</tr>
<tr>
<td>Jakafi®</td>
<td>5/24/2019</td>
<td>10/1/2019</td>
<td>Propose to continue because 3-year anniversary date (5/24/2022) will occur in the second half of FY 2022</td>
<td>(84 FR 42265 through 42273) and (85 FR 58617 through 58618)</td>
<td>$4,096.21</td>
<td>XW0DXT5</td>
</tr>
<tr>
<td>BAROSTIM NEO™ System</td>
<td>08/16/2019</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year anniversary date (8/16/2022) will occur in the second half of FY 2022</td>
<td>(85 FR 58716 through 58717)</td>
<td>$22,750</td>
<td>0JH60MZ in combination with 03HK0MZ or 03H10MZ</td>
</tr>
<tr>
<td>FETROJA® (Cefiderocol)</td>
<td>11/19/2019 commercially available in US 2/24/2020</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year anniversary date (2/24/2023) will occur after FY 2022</td>
<td>(85 FR 58721 through 58723)</td>
<td>$7,919.86</td>
<td>XW03366 or XW04366</td>
</tr>
<tr>
<td>Technology</td>
<td>FDA/ Newness Start Date</td>
<td>NTAP Start Date</td>
<td>Proposed NTAP Status for FY 2022</td>
<td>Previous Final Rule Citations</td>
<td>Proposed Maximum NTAP Amount for FY 2022</td>
<td>Coding Used to Identify Cases Eligible for NTAP</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------</td>
<td>-----------------</td>
<td>----------------------------------</td>
<td>--------------------------------</td>
<td>------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>5 Optimizer® System</td>
<td>10/23/2019</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year anniversary date (10/23/2022) will occur after FY 2022</td>
<td>(85 FR 58720 through 58721)</td>
<td>$14,950</td>
<td>0JH60AZ, 0JH63AZ, 0JH80AZ or 0JH83AZ</td>
</tr>
<tr>
<td>6 RECARBRIO™</td>
<td>07/16/2019 commercially available in US 1/6/2020</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year anniversary date (1/6/2023) will occur after FY 2022</td>
<td>(85 FR 58727 through 58729)</td>
<td>$3,532.78</td>
<td>XW033U5 or XW043U5</td>
</tr>
<tr>
<td>7 Soliris®</td>
<td>06/27/2019</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year anniversary date (6/27/2022) will occur in second half of FY 2022</td>
<td>(85 FR 58684 through 58689)</td>
<td>$21,199.75</td>
<td>XW033C6 and XW043C6</td>
</tr>
<tr>
<td>8 XENLETA™</td>
<td>08/19/2019 commercially available in US 9/10/2019</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year anniversary date (9/10/2022) will occur in the second half of FY 2022</td>
<td>(85 FR 58729 through 58732)</td>
<td>$1,275.75</td>
<td>XW03366, XW04366 or XW0DX66</td>
</tr>
<tr>
<td>9 ZERBAXA®</td>
<td>06/03/2019</td>
<td>10/1/2020</td>
<td>Propose to continue because 3-year</td>
<td>(85 FR 58732)</td>
<td>$1,836.98</td>
<td>XW03396 or XW04396</td>
</tr>
</tbody>
</table>
### Proposed Continuation of Technologies Approved for FY 2021 New Technology Add-on Payments Still Considered New for FY 2022

<table>
<thead>
<tr>
<th>Technology</th>
<th>FDA/ Newness Start Date</th>
<th>NTAP Start Date</th>
<th>Proposed NTAP Status for FY 2022</th>
<th>Previous Final Rule Citations</th>
<th>Proposed Maximum NTAP Amount for FY 2022</th>
<th>Coding Used to Identify Cases Eligible for NTAP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>anniversary date (6/3/2022) will occur in the second half of FY 2022</td>
<td>through 58733</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b. Proposal To Extend New Technology Add-On Payments

Section 1886(d)(5)(K)(ii)(II) of the Act provides for the collection of data with respect to the costs of a new medical service or technology described in subclause (I) for a period of not less than 2 years and not more than 3 years beginning on the date on which an inpatient hospital code is issued with respect to the service or technology. As explained in the FY 2005 IPPS final rule (69 FR 49002), the intent of section 1886(d)(5)(K) of the Act and regulations under § 412.87(b)(2) is to pay for new medical services and technologies for the first 2 to 3 years that a product comes on the market, during the period when the costs of the new technology are not yet fully reflected in the DRG weights. Generally, we use FDA approval (that is, marketing authorization) as the indicator of the time when a technology begins to become available on the market and data reflecting the costs of the technology begin to become available for recalibration of the DRGs. The costs of the new medical service or technology, once paid for by Medicare for this 2-year to 3-year period, are accounted for in the MedPAR data that are used to recalibrate the DRG weights on an annual basis. Therefore, we limit the add-on payment window for those technologies that have passed this 2- to 3-year timeframe.

As discussed in the FY 2006 IPPS final rule (70 FR 47349) and subsequent years, we do not believe that case volume is a relevant consideration for making the determination as to whether a product is “new.” Consistent with the statute, a technology no longer qualifies as “new” once it is more than 2 to 3 years old, irrespective of how frequently it has been used in the Medicare population. Therefore, if a product is more than 2 to 3 years old, we have historically considered its costs to be included in the MS–DRG relative weights whether its use in the Medicare population has been frequent or infrequent.

However, in light of the unique circumstances for FY 2022 ratesetting, for which we are proposing to use the FY 2019 MedPAR claims data where we ordinarily would have used the FY 2020 MedPAR claims data for purposes of developing the FY 2022 relative weights, for the reasons discussed in section I.F. of the preamble of this proposed rule, we believe it may be appropriate to make a one-time exception to this long-standing policy for all technologies approved for new technology add-on payments for FY 2021, but for which the add-on payments would otherwise be discontinued beginning in FY 2022 because the technologies would no longer be considered new.

As discussed in section I.F. of the preamble of this proposed rule, ordinarily, the best available MedPAR data for ratesetting would be the most recent MedPAR file that contains claims from discharges for the fiscal year that is 2 years prior to the fiscal year that is the subject of the rulemaking. For FY 2022 ratesetting, under ordinary circumstances, the best available data would be the FY 2020 MedPAR file. As discussed in section I.F. of the preamble of this proposed rule, the FY 2020 MedPAR claims file contains data significantly impacted by the COVID–19 PHE, primarily in that the utilization of inpatient services was generally markedly different for certain types of services in FY 2020 than would have been expected in the absence of the PHE. Accordingly, we question whether the FY 2020 MedPAR claims file is the best available data to use for the FY 2022 ratesetting.

In our discussion in section I.F. of the preamble of this proposed rule, we highlighted two factors we considered in assessing which data sources would represent the best available data to use in the FY 2022 ratesetting. The first factor is whether the FY 2019 data, which is from before the COVID–19 PHE, or the FY 2020 data, which includes the COVID–19 PHE time period, is a better overall approximation of the FY 2022 inpatient experience. After analyzing this issue, for the reasons discussed in section I.F. of the preamble of this proposed rule, we believe for purposes of this proposed rule that FY 2019 data are generally a better overall approximation of FY 2022. The second factor is to what extent the decision to use the FY 2019 or FY 2020 data differentially impacts the FY 2022 IPPS ratesetting. As discussed more fully in section I.F. of the preamble of this proposed rule, after analyzing this issue, we determined that the decision does differentially impact the overall FY 2022 IPPS ratesetting. For example, we determined that the effect on the FY 2022 MS–DRG relative weights is more limited if the FY 2019-based weights are used rather than the FY 2020-based weights, should the FY 2022 inpatient experience not match the assumption used to calculate the MS–DRG relative weights.

Based on our analyses, we are proposing to use FY 2019 data for the FY 2022 ratesetting for circumstances...
where the FY 2020 data is significantly impacted by the COVID–19 PHE. Because we believe the FY 2020 MedPAR claims data is significantly impacted by the COVID–19 PHE, we are proposing to use the FY 2019 MedPAR claims data for purposes where we ordinarily would have used the FY 2020 MedPAR claims data, including for purposes of developing the FY 2022 relative weights. We refer the reader to section I.F. of the preamble of this proposed rule for a further discussion on our analysis of the best available data for FY 2022 ratesetting.

As discussed previously, in general, we extend new technology add-on payments for an additional year only if the 3-year anniversary date of the product’s entry onto the U.S. market occurs in the latter half of the upcoming fiscal year. Because we are proposing to use FY 2019 MedPAR data instead of FY 2020 MedPAR data for the FY 2022 IPPS ratesetting, the costs for a new technology for which the 3-year anniversary date of the product’s entry onto the U.S. market occurs prior to the latter half of the upcoming fiscal year (FY 2022) may not be fully reflected in the MedPAR data used to recalibrate the MS–DRG relative weights for FY 2022. Therefore, in light of our proposal to use FY 2019 data instead of FY 2020 data to develop the FY 2022 relative weights, we believe it would be appropriate to allow for a one-year extension of new technology add-on payments for those technologies for which the new technology add-on payment would otherwise be discontinued beginning with FY 2022. Accordingly, we are proposing to use our authority under section 1886(d)(5)(I) of the Act to provide for a one-year extension of new technology add-on payments for FY 2022 for those technologies listed in the table that follows. We note that if we were to finalize our alternative approach of using the same FY 2020 data that we would ordinarily use for purposes of FY 2022 ratesetting, as discussed in section I.F. of the preamble of this proposed rule, we would also finalize to discontinue the new technology add-on payments for these expiring technologies beginning in FY 2022, consistent with our historic policies.

We note that this table also presents the newness start date, new technology add-on payment start date, relevant final rule citations from prior fiscal years, proposed maximum add-on payment amount, and coding assignments for these technologies. We refer readers to the final rules cited in the table for a complete discussion of the new technology add-on payment application, coding and payment amount for these technologies, including the applicable indications and discussion of the newness start date.

We are inviting public comment on our proposal to use our authority under section 1886(d)(5)(I) of the Act to provide for a 1-year extension of new technology add-on payments for FY 2022 for those technologies for which the new technology add-on payment would otherwise be discontinued beginning with FY 2022.

We finally note, with regard to ContaCT which is a technology sold on a subscription basis, we continue to welcome comments from the public as to the appropriate method to determine a cost per case for technologies sold on a subscription basis, including comments on whether the cost per case should be estimated based on subscriber hospital data as described previously, and if so, whether the cost analysis should be updated based on the most recent subscriber data for each year for which the technology may be eligible for the new technology add-on payment.
<table>
<thead>
<tr>
<th>Technology</th>
<th>FDA/ Newness Start Date</th>
<th>NTAP start date</th>
<th>Proposed NTAP Status for FY 2022</th>
<th>Previous Final Rule Citation</th>
<th>Proposed Maximum NTAP Amount for FY 2022</th>
<th>Coding Used to Identify Cases Eligible for NTAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azedra®</td>
<td>7/30/2018</td>
<td>10/1/2019</td>
<td>Propose a one year extension; 3-year anniversary date (7/30/2021) will occur prior to the second half of FY 2022</td>
<td>(84 FR 42194 through 42201 and 85 FR 58615)</td>
<td>$98,150</td>
<td>XW033S5 and XW043S5</td>
</tr>
<tr>
<td>Cablivi®</td>
<td>2/6/2019</td>
<td>10/1/2019</td>
<td>Propose a one year extension; 3-year anniversary date (2/6/2022) will occur prior to the second half of FY 2022</td>
<td>(84 FR 42201 through 42208 and 85 FR 58615)</td>
<td>$33,215</td>
<td>XW013W5, XW033W5 and XW043W5</td>
</tr>
<tr>
<td>Elzonris™</td>
<td>12/21/2018</td>
<td>10/1/2019</td>
<td>Propose a one year extension; 3-year anniversary date (12/21/2021) will occur prior to the second half of FY 2022</td>
<td>(84 FR 42231 through 42237 and 85 FR 58615 through 58616)</td>
<td>$125,448.05</td>
<td>XW033Q5 and XW043Q5</td>
</tr>
<tr>
<td>Technology</td>
<td>FDA/ Newness Start Date</td>
<td>NTAP start date</td>
<td>Proposed NTAP Status for FY 2022</td>
<td>Previous Final Rule Citation(s)</td>
<td>Proposed Maximum NTAP Amount for FY 2022</td>
<td>Coding Used to Identify Cases Eligible for NTAP</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------</td>
<td>-----------------</td>
<td>----------------------------------</td>
<td>---------------------------------</td>
<td>------------------------------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>4 AndexXa®</td>
<td>5/3/2018</td>
<td>10/1/2018</td>
<td>Propose a one year extension; 3-year anniversary date (5/3/2021) will occur prior to the second half of FY 2022</td>
<td>(83 FR 41355 through 41362), (84 FR 42193 through 42194) and (85 FR 58614 through 58615)</td>
<td>$18,281.25</td>
<td>XW03372 or XW04372</td>
</tr>
<tr>
<td>5 Spravato®</td>
<td>3/5/2019</td>
<td>10/1/2019</td>
<td>Propose a one year extension; 3-year anniversary date (3/5/2022) will occur prior to the second half of FY 2022</td>
<td>(84 FR 42247 through 42256) and (85 FR 58616 through 58617)</td>
<td>$1,014.79</td>
<td>XW097M5</td>
</tr>
<tr>
<td>6 Zemdri®</td>
<td>6/25/2018</td>
<td>10/1/2018</td>
<td>Propose a one year extension; 3-year anniversary date (6/25/2021) will occur prior to the second half of FY 2022</td>
<td>(83 FR 41326 through 41334), (84 FR 42190 through 42191) and 85 FR 58613</td>
<td>$4,083.75</td>
<td>XW033G4 and XW04G4</td>
</tr>
<tr>
<td>7 T2 Bacteria® Panel</td>
<td>5/24/2018</td>
<td>10/1/2019</td>
<td>Propose a one year extension; 3-year anniversary date (5/24/2021) will occur</td>
<td>(84 FR 42278 through 42288) and (85 FR 58618)</td>
<td>$97.50</td>
<td>XXE5XM5</td>
</tr>
<tr>
<td>Technology</td>
<td>FDA/ Newness Start Date</td>
<td>NTAP start date</td>
<td>Proposed NTAP Status for FY 2022</td>
<td>Previous Final Rule Citation</td>
<td>Proposed Maximum NTAP Amount for FY 2022</td>
<td>Coding Used to Identify Cases Eligible for NTAP</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------</td>
<td>-----------------</td>
<td>-------------------------------</td>
<td>-----------------------------</td>
<td>----------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>8 ContaCT</td>
<td>02/13/2018 (commercially available 10/01/2018)</td>
<td>10/1/2020</td>
<td>Propose a one year extension; 3-year anniversary date (10/1/2021) will occur prior to the second half of FY 2022</td>
<td>(85 FR 58625 through 58636)</td>
<td>$1,040</td>
<td>4A03X5D</td>
</tr>
<tr>
<td>9 Eluvia™ Drug-Eluting Vascular Stent System</td>
<td>09/18/2018 commercially available in US 10/4/2018</td>
<td>10/1/2020</td>
<td>Propose a one year extension; 3-year anniversary date (10/4/2021) will occur prior to the second half of FY 2022</td>
<td>(85 FR 58645 through 58636)</td>
<td>$3,646.50</td>
<td>X27H385, X27H395, X27H3B5, X27H3C5, X27J385, X27J395, X27J3C5, X27K385, X27K395, X27K3C5, X27L385, X27L395, X27L3B5, X27L3C5</td>
</tr>
<tr>
<td>10 Hemospray®</td>
<td>05/07/2018 (commercially available 07/01/2018)</td>
<td>10/1/2020</td>
<td>Propose a one year extension; 3-year anniversary date (07/01/2021) will occur prior to the second half of FY 2022</td>
<td>(85 FR 58665 through 58672)</td>
<td>$1,625</td>
<td>XW0G886 and XW0H886</td>
</tr>
<tr>
<td>11 IMFINZI®/ TECENTRIQ®</td>
<td>Imfinzi: 03/27/2020;</td>
<td>10/1/2020</td>
<td>Propose a one year extension; 3-</td>
<td>(85 FR 58672</td>
<td>$6,875.90</td>
<td>Imfinzi XW03336 or XW04336</td>
</tr>
<tr>
<td>Technology</td>
<td>FDA/ Newness Start Date</td>
<td>NTAP Newness Start Date</td>
<td>Proposed NTAP Status for FY 2022</td>
<td>Previous Final Rule Citation</td>
<td>Proposed Maximum NTAP Amount for FY 2022</td>
<td>Coding Used to Identify Cases Eligible for NTAP</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------------</td>
<td>-------------------------</td>
<td>----------------------------------</td>
<td>-----------------------------</td>
<td>----------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Tecentriq</td>
<td>03/18/2019</td>
<td>3/18/2019</td>
<td>year anniversary date (3/18/2022) will occur prior to the second half of FY 2022 through 58684)</td>
<td></td>
<td>$1,552.50</td>
<td>Tecentriq XW033D6 or XW043D6</td>
</tr>
<tr>
<td>NUZYRA®</td>
<td>10/02/2018 (commercially available 02/01/2019)</td>
<td>10/1/2020</td>
<td>Propose a one year extension, 3-year anniversary date (2/1/2022) will occur prior to the second half of FY 2022</td>
<td>(85 FR 58725 through 58727)</td>
<td>$1,552.50</td>
<td>XW033B6 or XW043B6</td>
</tr>
<tr>
<td>SpineJack® System</td>
<td>08/30/2018 (commercially available 10/11/2018)</td>
<td>10/1/2020</td>
<td>Propose a one year extension, 3-year anniversary date (10/11/2021) will occur prior to the second half of FY 2022</td>
<td>(85 FR 58689 through 58701)</td>
<td>$3,654.72</td>
<td>XNU0356 and XNU4356</td>
</tr>
<tr>
<td>Xospata®</td>
<td>11/28/2018</td>
<td>10/1/2020</td>
<td>Propose a one year extension, 3-year anniversary date (11/28/2021) will occur prior to the second half of FY 2022</td>
<td>(84 FR 42256 through 42260) and (85 FR 58617)</td>
<td>$7,312.50</td>
<td>XW0DXV5</td>
</tr>
</tbody>
</table>
artery disease and stroke. \textsuperscript{9} \textsuperscript{10} \textsuperscript{11} The applicant further noted that acute PE is a life-threatening medical emergency that demands urgent intervention and clinical studies have demonstrated a strong correlation between time to communication of PE findings, treatment, and clinical outcomes. \textsuperscript{12} \textsuperscript{13} \textsuperscript{14} According to the applicant, in a typical workflow, a patient presenting to a hospital with signs or symptoms of PE would move through the system as follows: (1) Patient presents with suspected PE to the ED; (2) Patient receives contrast-enhanced CTPA imaging; (3) Technologist processes and reconstructs the CT images and manually routes them to the hospital picture archiving and communication system (PACS); (4) The exam enters a first-in-first-out (FIFO) reading queue, where it awaits radiological interpretation; (5) Radiologist reads the CT images and makes the diagnosis of PE; (6) The radiologist informs the referring physician of positive PE either verbally or through the radiologist report; (7) ED physician and/or on-call pulmonologist decide on the management strategy; (8) If appropriate, the patient proceeds to treatment.

The applicant asserted that the FIFO workflow is the standard of care. The applicant stated that Briefcase for PE allows facilities to substantially shorten the period of time between when the patient receives CTPA imaging (Step 2) and when the radiologist informs the referring physician of positive PE (Step 5). The applicant stated that Briefcase for PE streamlines this workflow using AI to analyze CTPA images of the chest automatically and notifies the radiologist that a suspected PE has been identified, enabling the radiologist to review imaging and make diagnostic decisions faster by prioritizing these images for review in the queue.

With respect to the newness criterion, Briefcase for PE received FDA 510(k) clearance on April 15, 2019 to market the device under FDA 510(k) number K190072. The FDA clearance for Briefcase for PE was based on substantial equivalence to the legally marketed predicate device, Briefcase for Intracranial Hemorrhage (ICH) (FDA 510(k) number K180647), as both of these devices use AI algorithms to analyze images and highlight cases for further action based on CT images. Briefcase for ICH received FDA 510(k) clearance on August 1, 2018. The predicate device for Briefcase for ICH is Vasx's ContactCath and received FDA De Novo premarket approval in February of 2018. The applicant asserted Briefcase for ICH is indicated for use in the analysis of non-enhanced head CT images, whereas Briefcase for PE is indicated for use in the analysis of non-enhanced CTPA images. According to the applicant, there are currently no ICD–10–PCS procedure codes to adequately describe Briefcase for PE. The applicant submitted a request for approval of a unique ICD–10–PCS procedure code to identify use of the technology beginning FY 2022.

Under the newness criterion, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With respect to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, according to the applicant, Briefcase for PE is the only FDA-cleared technology that uses computer-aided triage and notification to rapidly detect PE and shorten time to notification of the radiologist. The applicant claimed that no other FDA approved or cleared technology uses the same mechanism of action for computer-aided triage and prioritization of PE.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that evaluations for PE or suspected PE using Briefcase for PE will be assigned to the
same DRGs as patients evaluated for PE or suspected PE under the current workflow or standard of care. The applicant estimates that under the MS–DRG grouper for FY 2021, Briefcase for PE could map to 279 different MS–DRGs, with MS–DRGs 175 (Pulmonary embolism with major complication or comorbidity (MCC) or acute cor pulmonale) and 176 (Pulmonary embolism without MCC) accounting for approximately 45 percent of the estimated cases.

With respect to the third criterion, whether the new use of technology involves the treatment of the same or similar type of disease and the same or similar patient population when compared to an existing technology, the applicant did not directly respond to the criterion but reiterated that no other existing technology is comparable to Briefcase for PE and that Briefcase for PE is the only FDA-cleared technology that uses computer aided triage and notification to rapidly detect PE and shorten time to notification of the radiologist.

We have the following concerns regarding whether the technology meets the substantial similarity criteria and whether it should be considered new. We note that the applicant asserted that Briefcase for ICH, the predicate device for Briefcase for PE, is identical in all aspects and differs only with respect to the training of the algorithm on PE (that is, non-enhanced CTPA) and ICH images. We are unclear whether the training of the algorithm on PE and ICH images would distinguish the mechanism of action for Briefcase for PE from Briefcase for ICH, or its predicate device, ContraCT, and we invite comment on whether Briefcase for PE represents a new mechanism of action. We note that although the applicant did not directly state whether Briefcase for PE involves the treatment of the same or similar type of disease and the same or similar patient population, we believe that Briefcase for PE would be used for a different disease and patient population than Briefcase for ICH and ContraCT.

We continue to be interested in public comments regarding issues related to determining newness for technologies that use AI, an algorithm, or software, as discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58628). Specifically, we are interested in public comment on how technologies, including devices classified as radiological computer aided triage and notification software and radiological computer-assisted diagnostic software, may be considered for the purpose of identifying a unique mechanism of action; how updates to AI, an algorithm or software would affect an already approved technology or a competing technology; whether software changes for an already approved technology could be considered a new mechanism of action, and whether an improved algorithm by competing technologies would represent a unique mechanism of action if the outcome is the same as an already approved AI new technology.

We invite public comments on whether Briefcase for PE meets the newness criterion.

With regard to the cost criterion, the applicant presented the following analysis. The applicant first identified the principal diagnoses associated with the PE-related MS–DRGs 175 (“Pulmonary embolism with MCC or acute cor pulmonale”) and 176 (“Pulmonary embolism without MCC”). The applicant then searched the FY 2019 proposed rule MedPAR Limited Data Set (LDS) for claims where the principal diagnoses were listed in any position on an inpatient claim. The applicant mapped the 2,517 identified claims to the list of unique MS–DRGs corresponding to these claims and aggregated the claims by MS–DRG. Per the applicant, under the MS–DRG grouper for FY 2021, potential cases representing patients who may be eligible for treatment using Briefcase for PE map to 279 MS–DRGs, with MS–DRGs 175 and 176 accounting for approximately 45 percent of estimated cases. The applicant also provided a table of the top 10 MS–DRGs, which represent approximately 69 percent of estimated cases.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>MS-DRG Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>175</td>
<td>PULMONARY EMBOLISM WITH MCC OR ACUTE COR PULMONALE</td>
</tr>
<tr>
<td>176</td>
<td>PULMONARY EMBOLISM WITHOUT MCC</td>
</tr>
<tr>
<td>871</td>
<td>SEPTICEMIA OR SEVERE SEPSIS WITHOUT MV &gt;=96 HOURS WITH MCC</td>
</tr>
<tr>
<td>299</td>
<td>PERIPHERAL VASCULAR DISORDERS WITH MCC</td>
</tr>
<tr>
<td>208</td>
<td>RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT &lt;=96 HOURS</td>
</tr>
<tr>
<td>291</td>
<td>HEART FAILURE AND SHOCK WITH MCC</td>
</tr>
<tr>
<td>280</td>
<td>ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE WITH MCC</td>
</tr>
<tr>
<td>163</td>
<td>MAJOR CHEST PROCEDURES WITH MCC</td>
</tr>
<tr>
<td>270</td>
<td>OTHER MAJOR CARDIOVASCULAR PROCEDURES WITH MCC</td>
</tr>
<tr>
<td>853</td>
<td>INFECTIOUS AND PARASITIC DISEASES WITH O.R. PROCEDURES WITH MCC</td>
</tr>
</tbody>
</table>

The applicant standardized the charges and applied the 2-year charge inflation factor used to adjust the outlier threshold determination, which the applicant stated was 10.22 percent. We note that the actual 2-year inflation factor in the FY 2021 IPPS/LTCH PPS final rule was 13.2 percent (85 FR 59039), which would have increased the inflated charges figure. The applicant did not remove charges for prior technology as the applicant maintained that no existing technology is comparable to Briefcase for PE. However, the applicant removed 31.9 percent of total accommodation charges, which the applicant maintained is consistent with their internal study which indicated that Briefcase for PE reduced the length of stay for PE-diagnosed patients.15 Per the applicant, the study demonstrated a mean length of stay of 8.77 and 5.97 days for pre-AI and post-AI time periods, respectively.16

Next, the applicant added charges for the new technology. To calculate the charges for the new technology, the applicant multiplied the cases involving Briefcase for PE from each of its subscribing providers by a Medicare share of 52 percent to obtain the total estimated Medicare and non-Medicare cases. The applicant obtained the 52 percent Medicare share figure from a


16 Ibid.
nationwide sample of inpatient claims provided by the Agency for Healthcare Research and Quality (AHRQ). Specifically, the applicant searched data from the Healthcare Cost and Utilization Project for discharges with the following codes: I2699, I2609, I2692, I2602, I2782, T790XXA, T800XXA, T791XXA, I2693, I2694, and I2601. The applicant found 189,575 discharges, of which 52 percent identified Medicare as the payer. The applicant divided the total cost of the technology by the estimated total number of cases for each customer to obtain a provider-specific cost per case, which it then averaged across all customers to obtain an overall average cost per case. Finally, the applicant divided the average cost per case by the national average CCR for the CT cost center of 0.034 from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601).

The applicant calculated a final inflated average case-weighted standardized charge per case of $87,483, which exceeded the average case-weighted threshold amount of $71,312. Because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the applicant maintained that Briefcase for PE meets the cost criterion.

We would like more information regarding the methodology by which the applicant selected the diagnosis codes associated with MS–DRGs 175 and 176, as well as subanalyses that limit the cases to MS–DRGs 175 and 176 and the top 10 MS–DRGs, which per the applicant represent 45 percent of estimated cases and 69 percent of estimated cases, respectively. Additionally, the applicant appears to have used a single list price of Briefcase for PE per hospital with a cost per patient that can vary based on the volume of cases. We question whether the cost per patient varies based on the utilization of the technology by the hospitals. We are interested in more information about the applicant’s cost per case calculation, including how the applicant selected the codes it used to search for discharges from the Healthcare Cost and Utilization Project, as well as the per unit cost of Briefcase for PE and how the total cost of the technology was calculated for each subscribing provider.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58630), we stated our understanding that there are unique circumstances to determining a cost per case for a technology that utilizes a subscription for its cost. We stated our intent to continue to consider the issues relating to the calculation of the cost per unit of technologies sold on a subscription basis as we gain more experience in this area. We continue to welcome comments from the public as to the appropriate method to determine a cost per case for such technologies, including comments on whether the cost per case should be estimated based on subscriber hospital data as described previously, and if so, whether the cost analysis should be updated based on the most recent subscriber data for each year for which the technology may be eligible for the new technology add-on payment. We also invite public comment on whether Briefcase for PE meets the cost criterion, particularly in light of the subscription model, for which the number of subscribers and the estimated cost per case based on that subscriber data may change over time.

With regard to the substantial clinical improvement criterion, the applicant claimed that Briefcase for PE represents an advance that substantially improves the ability to diagnose pulmonary embolism by pre-reading images of CTPAs, automatically identifying suspected PE in CTPA images, and notifying the radiologist before the radiologist would have opened the study in the standard of care, which the applicant claims is the FIFO workflow. The applicant also asserted that because of a reduction in time-to-exam-open, where Briefcase for PE notifies the radiologist to open and read CTPA studies that have a high probability of being positive for PE sooner than the radiologist would have under the FIFO workflow, the treating physician can initiate treatment sooner, which can save an average of 60.2 minutes (95 percent CI: 3.7–4.1). The applicant noted that, in contrast, the time-to-exam-open in the FIFO workflow was significantly longer at 64.1 minutes (95 percent CI: 36.6–91.5). The applicant stated the mean difference of 60.2 minutes (95 percent CI: 32.7–87.6) for these two metrics is statistically significant, and assuming the radiologist receives a notification on a true positive PE case and acts on it immediately, it can save an average of 60.2 minutes (95 percent CI: 32.7–87.6) compared to the time-to-exam-open in a FIFO reading queue. Based on this data, the applicant concluded Briefcase for PE substantially shortened the time to diagnosis for PE cases as compared with the FIFO workflow.

The applicant further claimed that clinical studies and other real-world data have demonstrated comparable performance characteristics and shown that the integration of the Briefcase for PE software into the radiology workflow markedly improves time to notification for PE patients across a variety of clinical settings, geographies, and facilities. The applicant submitted a retrospective, single-site study by Weikert T., et al., which evaluated Briefcase for PE performance on 1,465 retrospective CTPA examinations from 2017 in an academic center outside the US. The sensitivity and specificity were measured to be 92.7 percent (95 percent CI: 88.3–95.5 percent) and 95.5 percent (95 percent CI: 94.2–96.6 percent), respectively. The researchers concluded that the system has high diagnostic performance for the automatic detection of PE on CTPA exams and as such, speeds up the diagnostic workup of critical cases.

The applicant stated that unpublished data maintained by Aidoc suggest that real-world performance of Briefcase for PE is consistent with what was found in

---

the FDA pivotal study.\textsuperscript{20,21} The applicant stated that across 26 sites encompassing a variety of geographic locations across the United States, a total of 36,084 CTPA examinations were analyzed over a 90-day period (July 13, 2020–October 11, 2020). Time-to-notification metrics were calculated for all 4,748 CTPAs analyzed by the software and identified as positive for PE. Time-to-notification was calculated as the time to get the DICOM exam, de-identify it, upload it to the cloud, analyze and send a notification back to the radiologist and patient. The applicant claimed that the mean time-to-notification for PE was 7.0 minutes (median: 6.1/IQR: 4.8). According to the applicant, over 85 percent of CTPA examinations identified as positive for PE were notified in under 10 minutes. The applicant concluded that the study demonstrates the ability of Briefcase for PE to provide fast time-to-notification on positive PE cases and its generalizability across different centers and patient populations.

The applicant submitted additional unpublished data from the 26 sites spread across a variety of geographic locations of the United States aggregated over a different 90-day period (September 17, 2020 to December 17, 2020).\textsuperscript{22} Seven sites were excluded from the analysis due to having third-party integrations that prevented the ability to capture engagement metrics. Two engagement metrics were calculated: the open percentage and the time-to-open. The open percentage metric was calculated as the percentage of notifications that were presented to the radiologist and opened by at least one radiologist. The time-to-open metric was measured by calculating the time between the arrival of the Briefcase for PE notification and the time first opened by a radiologist. A total of 2,138 notifications for CTPA examinations found to be positive for PE by Briefcase for PE were analyzed. The open percentage was found to be 97 percent across all sites (min: 80 percent, max: 100 percent), and the mean time-to-open was found to be 2.13 minutes (median: 1.6/interquartile range: 2.0). The data provided by the applicant indicated over 90 percent of notifications were found to be opened in under 5 minutes. Based on this data, the study concluded that radiologists in the US readily engage with notifications for positive PE cases provided by Briefcase for PE and do so in a timely manner. The study asserted that engagement is an important metric to assess radiologist adoption of this technology, which is critical to its practical utility in shortening time to diagnosis and communication of PE to reduce the time to treatment and improve clinical outcomes.

The applicant also claimed that Briefcase for PE significantly improves clinical outcomes relative to the current standard of care using the FIFO workflow because the use of Briefcase for PE reduces time to diagnosis and treatment by notifying the radiologist to review the image for suspected PE faster in the workflow. The applicant claimed early diagnosis and treatment is important in acute PE where there exists a "golden hour," during which a timely approach to diagnosis and therapy can affect outcomes by reducing mortality and reducing length of stay.\textsuperscript{23} The applicant provided two unpublished internal studies in support of the impact of Briefcase for PE on clinical outcomes. The applicant stated that in a single-site retrospective study, Maya M., et al. have shown a reduction in hospital length of stay for PE patients following the use of the Briefcase for PE system, compared to an equivalent time period prior to the use of the system.\textsuperscript{24} The applicant stated that Maya M., et al. compared mean length of stay for 366 patients with a positive PE diagnosis during 10-month periods before and after Briefcase for PE was implemented at Cedars-Sinai Medical Center in December 2018 (206 patients before the use of Briefcase for PE and 160 patients after the AI intervention). 3,997 patient encounters that underwent CTPA imaging but that were not diagnosed with PE were split as 1,926 and 2,071 patient encounters for the pre/post-AI periods based on the admission dates. Hip fracture was chosen as a comparison group due to acuity, treatment-related factors, and similar length of stay to PE. 2,422 patient encounters for patients diagnosed with hip fractures, identified by ICD9 code 820 and 821, were split as 1,279 and 1,143 patient encounters for the pre/post-AI periods based on the admission dates. Hip fracture was chosen as a comparison group due to acuity, treatment-related factors, and similar length of stay to PE. 2,422 patient encounters for patients diagnosed with hip fractures, identified by ICD9 code 820 and 821, were split as 1,279 and 1,143 patient encounters for the pre/post-AI periods based on the admission dates. According to the applicant, the mean difference was 0.42 days (p-value <0.05). For the hip fracture diagnosed patients, a mean length of stay of 6.90 and 6.69 days was observed for the pre-AI and post-AI time periods, respectively. The mean difference was 0.18 days (p-value <0.05). According to the applicant, Maya et al. concluded that implementation of Briefcase for PE for flagging and prioritization of patients with PE resulted in significant reduction of length of stay that was not observed in other control groups.

The applicant also submitted a study by Raskin D., et al. which completed an additional retrospective, single-armed, single-site, study that indicated improved outcomes in PE patients, compared to a time period prior to the use of Briefcase for PE.\textsuperscript{25} In Raskin D., et al., data for all patients older than 18 years with a diagnosis of PE on CTPA and admitted to the institution’s ED was collected for the period before the use of the AI software (January 1, 2016–January 1, 2018; pre-AI) and afterwards (January 1, 2019–December 6, 2019; post-AI). According to the applicant, study variables included demographics, clinical data, and imaging data. The applicant stated the primary variables for outcomes were 30- and 120-day all-cause mortality. 175 patients were eligible for the entire analyzed period (123 pre-AI, 52 Post-AI). The study found that 30- and 120-day all-cause mortality were significantly reduced post-AI (8.1 percent vs 7.7 percent, 15.5 percent vs 9.6 percent, respectively, p<0.05). According to the applicant, Raskin D., et al. concluded that...
implementation of Briefcase for PE for flagging patients with PE resulted in significant reduction of 30- and 120-day all-cause mortality.

The applicant submitted five additional clinical studies that do not directly involve the use of Briefcase for PE to demonstrate a strong correlation between time to communication of PE findings, initiation of treatment, and clinical outcomes. The applicants submitted a review by Kenneth E. Wood, further establishing a “golden hour” of PE during which a timely approach to diagnosis and therapy can potentially impact outcomes. According to the applicant, Wood states that major PE results whenever the combination of embolism size and underlying cardiopulmonary status interact to produce hemodynamic instability and that most deaths in patients occur within the first few hours after presentation, and rapid diagnosis and treatment is therefore essential to save patients’ lives. One prospective, single-site study, Kumamaru K., et al. indicates the prevalence of a “golden hour” for PE diagnosis and treatment and concluded that delay (>1.5 hours of CTPA acquisition) in direct communication of acute PE diagnosis from radiologists to referring physicians was significantly correlated with a higher risk of delayed treatment initiation and death within 30 days. Another prospective, single-site study, Kline J., et al., concluded that patients with a delayed diagnosis had a higher rate of in-hospital adverse events (9 percent vs. 30 percent; p = 0.01). An additional retrospective, single-site study by Smith S., et al. observed an association between early administration of anticoagulation therapy and reduced mortality for patients with acute PE. Lastly, a retrospective, single-site study asserting a “golden hour” by Soh S., et al. was submitted by the applicant to demonstrate an association between early initiation of anticoagulation therapy and in-hospital mortality in high-risk PE patients who needed ICU care. According to the applicant, Soh S., et al. concluded that their analysis showed that the cutoff point of anticoagulation initiation to achieve improved survival rates was 5.2 hours (that is, golden hour). The applicant stated that the study observed an association between early anticoagulation and reduced mortality for patients with acute PE.

In reviewing the information submitted by the applicant as part of its FY 2022 new technology add-on payment application for Briefcase for PE, we note that the clinical literature provided by the applicant only compares the technology to unassisted FIFO workflows and not against existing electronic (for example, EHR “stat” orders) or manual (for example, verbal communication to radiologist) forms of prioritization, or other types of existing risk stratification tools or features currently available in EHRs.

Additionally, we note that some of the studies provided by the applicant that took place over many years may not have accounted for confounding variables (for example, improvements in care for patients with suspected PE) that may have occurred during the study period. Comparing to the FIFO workflow alone assumes that no other changes occurred before and after the adoption of the system and that the hospitals in question did not implement any other changes to their standard operating procedures to stratify suspected PE cases over the period of time many of the provided studies took place. We also note that the applicant has not provided data on potential outcome concerns associated with this type of clinical decision support tool (for example, treatment delays due to false negatives, false positives, or multiple workflow prioritization alerts presented to the physician at the same time). We invite public comment on whether these issues may affect the tool’s ability to help diagnose a medical condition earlier in a patient population.

Lastly, we note that the applicant does not measure the effect of its technology on actual treatment outcomes, instead relying on the assumption that faster treatment results in better outcomes. Without measuring this impact on treatment outcomes, we are uncertain if the technology will lead to substantive clinical outcomes. Given that the applicant references a critical “golden hour” which may be as long as 5.2 hours, the potential time savings resulting from the use of Briefcase for PE may be insubstantial in relation to the time within which outcomes are affected in the setting of PE.

We are inviting public comments on whether Briefcase for PE meets the substantial clinical improvement criterion.

We received a written public comment from the applicant in response to the New Technology Town Hall meeting regarding the application of Briefcase for PE for new technology add-on payments.

Comment: The applicant responded to questions received at the New Technology Town Hall Meeting. First the applicant was asked about the sensitivity and specificity of the standalone device for identifying pulmonary embolism and how the sensitivity and specificity of the radiologist alone compare to the sensitivity and specificity of the radiologist when using the device. The applicant responded by reiterating the sensitivity and specificity data provided in the FDA pivotal study and restating that Briefcase for PE is a computer-aided triage and notification system that is not intended to aid in the diagnosis of PE but rather, Briefcase for PE identifies cases of suspected PE on CTPAs and, via triage and notification, prioritizes these cases for radiologist review.

The applicant further restated that this triage and notification modifies the traditional radiology workflow in which images are reviewed on a FIFO basis to reduce the time-to-open-exam from over one hour to several minutes (standard of care vs. Briefcase for PE). The applicant restated that this reduction in time-to-open-exam has been demonstrated to improve patient outcomes, including hospital length of stay and post-discharge mortality. The applicant further noted that, because Briefcase for PE is a triage and notification system, no patient harm results from false positives or false negatives that may occur. The applicant explained that with respect to false positives, these suspected cases of PE will be triaged and the radiologist will be notified, prompting earlier review and diagnosis of the CTPA image by the radiologist. The applicant explained that for cases of PE that are missed by Briefcase for PE (that is, false negatives), the radiologist will review these CTPA images on a FIFO basis the same as today’s standard of care and that triage and notification are not occur in the standard of care.

Second, the applicant was asked if Briefcase for PE decreased time outside of clinical trial protocols and how the applicant can be certain reducing time-to-notification affects the time period between when the CTPA is completed and the study is interpreted. In response, the applicant again reiterated data from the FDA pivotal study in restating that implementation of Briefcase for PE saves on average 60.2 minutes relative to the standard of care FIFO clinical workflow and that data maintained by Aidoc demonstrate that real-world performance of Briefcase for PE is consistent with the results achieved in the FDA study. The
applicant also submitted data summarized previously indicating mean time-to-open, as measured by calculating the time between when a notification first became available in the application and the time of open, was 2.13 minutes (median: 1.0/IQR: 2.0). The applicant restated that in addition to measuring the mean time-to-open, the open rate, or the percentage of notifications opened, was measured for this same population and the open rate was found to be 97 percent (min: 80 percent, max: 100 percent), with over 90 percent of notifications found to be opened in under 5 minutes.

b. Amivantamab
Johnson & Johnson Health Care Systems, Inc. submitted an application for new technology add-on payments for amivantamab for FY 2022. Amivantamab is intended for the treatment of metastatic non-small cell lung cancer (NSCLC). The applicant stated amivantamab is a bispecific monoclonal antibody able to inhibit the epidermal growth factor receptor (EGFR) and c-MET tyrosine kinase signaling pathways known to be involved in the pathogenesis of NSCLC. Per the applicant, amivantamab works by binding EGFR and c-MET targets present on the outside of the cell. The applicant noted lung cancer is the second most common cancer in the U.S., and approximately 85 percent of all lung cancers are NSCLC. The applicant stated EGFR mutations are present in 10 to 15 percent of patients with NSCLC and are categorized as either common EGFR mutations or atypical EGFR mutations. Per the applicant, common EGFR mutations in patients with NSCLC can be treated with small molecule, oral tyrosine kinase inhibitors that work inside the cell while patients with atypical EGFR mutations, such as exon 20 insertion mutations, do not respond well to small-molecule, oral EGFR inhibitors or to chemotherapy. The applicant stated exon 20 insertion mutations are the most frequently observed atypical EGFR mutations affecting 4 to 10 percent of NSCLC patients with an EGFR mutation, but there are no FDA approved targeted therapies for NSCLC patients with exon 20 insertion mutations.

With respect to the newness criterion, the applicant stated that, in March 2020, amivantamab (also known as JNJ–61186372) received Breakthrough Therapy designation from the FDA for the treatment of patients with metastatic NSCLC with EGFR exon 20 insertion mutations whose disease has progressed on or after platinum-based chemotherapy. The applicant stated they are seeking a Biologics License Application (BLA) for amivantamab for the treatment of patients with metastatic NSCLC with EGFR exon 20 insertion mutations whose disease has progressed on or after platinum-based chemotherapy and have not yet received FDA marketing authorization. Per the applicant, amivantamab is administered as an infusion on a 28 day cycle; weekly for the first cycle and then every 2 weeks, and continued until disease progression or unacceptable toxicity. The applicant stated there are currently no ICD–10–PCS procedure codes that uniquely identify the use of amivantamab. We note the applicant submitted a request for approval of a unique ICD–10–PCS procedure code to identify use of the technology beginning in FY 2022.

As previously discussed, if a technology meets all three of the substantial similarity criteria under the newness criterion, it would be considered substantially similar to an existing technology and not be considered “new” for the purpose of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant asserted that the mechanism of action of amivantamab for treating NSCLC is unique as amivantamab is anticipated to be the first FDA-approved bispecific antibody therapy targeting EGFR and MET mutations simultaneously. The applicant asserted that both EGFR and MET are involved in NSCLC pathogenesis, progression, and development of resistance to other therapies. According to the applicant, the most common first-line treatment for atypical EGFR-positive patients due to exon 20 insertion mutations is platinum-based chemotherapy. Per the applicant, there is no standard of care after progression for second-line treatment, and patients receive a variety of therapies such as chemotherapy, immunotherapy, and tyrosine kinase inhibitors, as well as combinations of these therapies. The applicant reiterated that none of these treatments are FDA approved for this patient population and that they are associated with limited efficacy for these patients.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that the use of amivantamab is not expected to affect the DRG assignment. In their cost analysis, as shown below, the applicant identified several MS–DRGs relevant to this technology.

---


29 Daniel Raskin D.,MD, Chen Hoffmann C.,MD, Gilad Twig G.,MD Ph.D., Eli Konen E.,MD, Gal Yaniv GMD Ph.D. Artificial Intelligence Software for Flagging Pulmonary Embolism on CTPA Associated with Reduction of Mortality. Abstract draft of an internal study performed by the applicant (unpublished).
With respect to the third criterion, whether the new use of the technology involves the treatment of the same or a similar type of disease and the same or similar patient population, the applicant stated that amivantamab treats a distinct patient population with metastatic NSCLC: Metastatic NSCLC with exon 20 insertion mutations whose disease has progressed on or after platinum-based chemotherapy. Per the applicant, there is currently no FDA-approved therapy for this patient population, and the most commonly used therapies are associated with limited efficacy.

In summary, the applicant asserted that amivantamab should be considered new and not substantially similar to an existing technology because the mechanism of action of amivantamab for treating NSCLC is unique and it treats a distinct patient population.

We are inviting public comments on whether amivantamab is substantially similar to other currently available therapies and/or technologies and whether this technology meets the newness criterion.

With regard to the cost criterion, the applicant provided the following analysis to demonstrate that the technology meets the cost criterion. The applicant searched the FY 2019 Medicare Provider Analysis and Review (MedPAR) final rule file for cases based on the presence of one of the following ICD–10–CM diagnosis codes for lung cancer:

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C34</td>
<td>Malignant neoplasm of bronchus and lung</td>
</tr>
<tr>
<td>C34.0</td>
<td>Malignant neoplasm of main bronchus</td>
</tr>
<tr>
<td>C34.00</td>
<td>Malignant neoplasm of unspecified main bronchus</td>
</tr>
<tr>
<td>C34.01</td>
<td>Malignant neoplasm of right main bronchus</td>
</tr>
<tr>
<td>C34.02</td>
<td>Malignant neoplasm of left main bronchus</td>
</tr>
<tr>
<td>C34.10</td>
<td>Malignant neoplasm of upper lobe, bronchus or lung</td>
</tr>
<tr>
<td>C34.11</td>
<td>Malignant neoplasm of upper lobe, right bronchus or lung</td>
</tr>
<tr>
<td>C34.12</td>
<td>Malignant neoplasm of upper lobe, left bronchus or lung</td>
</tr>
<tr>
<td>C34.3</td>
<td>Malignant neoplasm of lower lobe, bronchus or lung</td>
</tr>
<tr>
<td>C34.40</td>
<td>Malignant neoplasm of lower lobe, unspecified bronchus or lung</td>
</tr>
<tr>
<td>C34.5</td>
<td>Malignant neoplasm of lower lobe, right bronchus or lung</td>
</tr>
<tr>
<td>C34.6</td>
<td>Malignant neoplasm of lower lobe, left bronchus or lung</td>
</tr>
<tr>
<td>C34.70</td>
<td>Malignant neoplasm of overlapping sites of bronchus and lung</td>
</tr>
<tr>
<td>C34.80</td>
<td>Malignant neoplasm of overlapping sites of unspecified bronchus and lung</td>
</tr>
<tr>
<td>C34.9</td>
<td>Malignant neoplasm of unspecified part of bronchus or lung</td>
</tr>
<tr>
<td>C34.90</td>
<td>Malignant neoplasm of unspecified part of unspecified bronchus or lung</td>
</tr>
<tr>
<td>C34.91</td>
<td>Malignant neoplasm of unspecified part of right bronchus or lung</td>
</tr>
<tr>
<td>C34.92</td>
<td>Malignant neoplasm of unspecified part of left bronchus or lung</td>
</tr>
</tbody>
</table>

We note that the applicant also provided the following ICD–10–PCS procedure codes, which the applicant stated could be used to identify cases involving amivantamab in the absence of a unique ICD–10–PCS code.
To further refine the cases used in the analysis, the applicant used the following methodology. Per the applicant, clinical data suggests 80 to 85 percent of lung cancer patients are NSCLC patients. The applicant stated that, of those patients, 10–15 percent are EGFR-mutations patients, and of those, at least 9 percent have atypical EGFR mutations like exon 20 ins. The applicant selected 0.93% (82.5% * 12.5% * 9%) of the cases identified based on the lung cancer diagnosis codes listed previously. The applicant stated this is the target population for amivantamab, which the applicant used for the cost analysis.

The applicant then accounted for the circumstances where amivantamab would be administered during an inpatient stay. The applicant stated that amivantamab will typically be administered in the outpatient setting, and that it assumed that amivantamab would be administered during an inpatient stay, possibly for care unrelated to a patient’s cancer treatment, when that stay coincided with the 2-week cycle during which a patient receiving amivantamab would undergo an infusion in the outpatient setting were it not for their inpatient admission. The applicant stated that, because it is very important that patients receive continuity of cancer care, it assumed that some patients would receive their amivantamab infusion during their hospital stay. To account for this scenario, the applicant calculated the average length of stay for all of the cases in its patient population, which it asserted was about 5.862 days.

The applicant then divided the average length of stay for all of the cases by 14, as per the applicant amivantamab is administered on 28-day cycle, with a weekly administration for the first cycle, and an administration every 2 weeks thereafter.

The applicant stated that current clinical guidelines are expected to give medical professionals discretion to administer amivantamab during the hospitalization or pause the treatment cycle. To account for physician discretion, the applicant included only 50 percent of these cases in the final cost analysis.

The applicant identified 349 cases mapping to the following MS–DRGs. The applicant has not made a request for amivantamab to map to a new or different MS–DRG for FY 2022.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>MS-DRG Description</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia Or Severe Sepsis w/o Mv &gt;96 Hours w MCC</td>
<td>46</td>
</tr>
<tr>
<td>180</td>
<td>Respiratory Neoplasms w MCC</td>
<td>26</td>
</tr>
<tr>
<td>164</td>
<td>Major Chest Procedures w CC</td>
<td>17</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCCW Mcc</td>
<td>14</td>
</tr>
<tr>
<td>181</td>
<td>Respiratory Neoplasms w CC</td>
<td>12</td>
</tr>
<tr>
<td>All Other</td>
<td></td>
<td>234</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>349</strong></td>
</tr>
</tbody>
</table>

The applicant assumed patients receiving amivantamab would receive one dose of the drug during their inpatient stay. Because amivantamab would be administered in addition to any other drugs the patient was receiving during their inpatient admission, the applicant did not remove costs associated with any previous technology. The applicant then standardized the charges using the FY 2019 IPPS/LTCH PPS final rule Impact file. Then the applicant applied the 2-year inflation factor of 13.2 percent (1.13218) from the FY 2021 IPPS/LTCH PPS final rule (85 FR 59039). The applicant then divided the average length of stay for all of the cases by 14, as per the applicant amivantamab is administered on 28-day cycle, with a weekly administration for the first cycle, and an administration every 2 weeks thereafter.

The applicant stated that current clinical guidelines are expected to give medical professionals discretion to administer amivantamab during the hospitalization or pause the treatment cycle. To account for physician discretion, the applicant included only 50 percent of these cases in the final cost analysis.

The applicant identified 349 cases mapping to the following MS–DRGs. The applicant has not made a request for amivantamab to map to a new or different MS–DRG for FY 2022.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>MS-DRG Description</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia Or Severe Sepsis w/o Mv &gt;96 Hours w MCC</td>
<td>46</td>
</tr>
<tr>
<td>180</td>
<td>Respiratory Neoplasms w MCC</td>
<td>26</td>
</tr>
<tr>
<td>164</td>
<td>Major Chest Procedures w CC</td>
<td>17</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCCW Mcc</td>
<td>14</td>
</tr>
<tr>
<td>181</td>
<td>Respiratory Neoplasms w CC</td>
<td>12</td>
</tr>
<tr>
<td>All Other</td>
<td></td>
<td>234</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>349</strong></td>
</tr>
</tbody>
</table>

The applicant then divided the average length of stay for all of the cases by 14, as per the applicant amivantamab is administered on 28-day cycle, with a weekly administration for the first cycle, and an administration every 2 weeks thereafter.

The applicant stated that current clinical guidelines are expected to give medical professionals discretion to administer amivantamab during the hospitalization or pause the treatment cycle. To account for physician discretion, the applicant included only 50 percent of these cases in the final cost analysis.

The applicant identified 349 cases mapping to the following MS–DRGs. The applicant has not made a request for amivantamab to map to a new or different MS–DRG for FY 2022.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>MS-DRG Description</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia Or Severe Sepsis w/o Mv &gt;96 Hours w MCC</td>
<td>46</td>
</tr>
<tr>
<td>180</td>
<td>Respiratory Neoplasms w MCC</td>
<td>26</td>
</tr>
<tr>
<td>164</td>
<td>Major Chest Procedures w CC</td>
<td>17</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCCW Mcc</td>
<td>14</td>
</tr>
<tr>
<td>181</td>
<td>Respiratory Neoplasms w CC</td>
<td>12</td>
</tr>
<tr>
<td>All Other</td>
<td></td>
<td>234</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>349</strong></td>
</tr>
</tbody>
</table>

The applicant then divided the average length of stay for all of the cases by 14, as per the applicant amivantamab is administered on 28-day cycle, with a weekly administration for the first cycle, and an administration every 2 weeks thereafter.

The applicant stated that current clinical guidelines are expected to give medical professionals discretion to administer amivantamab during the hospitalization or pause the treatment cycle. To account for physician discretion, the applicant included only 50 percent of these cases in the final cost analysis.

The applicant identified 349 cases mapping to the following MS–DRGs. The applicant has not made a request for amivantamab to map to a new or different MS–DRG for FY 2022.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>MS-DRG Description</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia Or Severe Sepsis w/o Mv &gt;96 Hours w MCC</td>
<td>46</td>
</tr>
<tr>
<td>180</td>
<td>Respiratory Neoplasms w MCC</td>
<td>26</td>
</tr>
<tr>
<td>164</td>
<td>Major Chest Procedures w CC</td>
<td>17</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCCW Mcc</td>
<td>14</td>
</tr>
<tr>
<td>181</td>
<td>Respiratory Neoplasms w CC</td>
<td>12</td>
</tr>
<tr>
<td>All Other</td>
<td></td>
<td>234</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>349</strong></td>
</tr>
</tbody>
</table>

The applicant then divided the average length of stay for all of the cases by 14, as per the applicant amivantamab is administered on 28-day cycle, with a weekly administration for the first cycle, and an administration every 2 weeks thereafter.

The applicant stated that current clinical guidelines are expected to give medical professionals discretion to administer amivantamab during the hospitalization or pause the treatment cycle. To account for physician discretion, the applicant included only 50 percent of these cases in the final cost analysis.

The applicant identified 349 cases mapping to the following MS–DRGs. The applicant has not made a request for amivantamab to map to a new or different MS–DRG for FY 2022.
In its analysis, the applicant appears to take a sample of a larger case population based on clinical data. It is unclear whether the applicant is taking a simple random sample or a targeted sample of cases. We note that, if the applicant obtained a random sample, this sample may not be any more representative of the larger population of cases identified by the lung cancer diagnosis codes listed previously. If the applicant instead non-randomly sampled cases from the larger population, we would like to understand the process used by the applicant to identify this targeted sample. Under either approach, we would request information on how a sampling of cases from the greater population is more representative of potential amivantamab patients.

We are inviting public comments on whether amivantamab meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that amivantamab represents a substantial clinical improvement over existing technologies. The applicant asserted several claims of substantial clinical improvement for amivantamab: (1) Amivantamab is anticipated to be the first therapy to treat the metastatic NSCLC with exon 20 insertion mutations for patients whose disease has progressed on or after platinum-based chemotherapy; (2) the objective response rate (ORR) was higher than what would be expected with chemotherapy or immunotherapy; (3) a clinical benefit rate higher than what would be expected with chemotherapy or immunotherapy; (4) a duration of response higher than what would be expected with chemotherapy or immunotherapy; (5) the median progression-free survival was higher than what would be expected with chemotherapy or immunotherapy; and (6) the incidence and severity of diarrhea was lower than what would be expected with any oral EGFR inhibitor.

The applicant stated that patients with NSCLC and EGFR exon 20 insertion mutations have a form of disease that is generally insensitive to available EGFR TKI treatments and, as a result, carries a worse prognosis compared to patients with more common EGFR mutations. The applicant, the current standard of care for the initial treatment of exon 20 insertion metastatic NSCLC is platinum-based chemotherapy, and, after a patient with EGFR exon 20 insertion metastatic NSCLC disease progresses on or during platinum-based chemotherapy, there is no standard of care. The applicant stated there are currently no FDA-approved targeted therapies for patients with lung cancer who have EGFR exon 20 insertion mutations. The applicant cited an analysis of the Flatiron Health database, which includes electronic health data records from over 265 cancer clinics representing over 2 million active US cancer patients, that found prescribers use a wide variety of treatment strategies, all of which have an unclear role in the second-line treatment of exon 20 insertion mutated metastatic NSCLC or are known to be ineffective and/or have potential tolerability issues.

Specifically, the analysis showed that in the second-line treatment of exon 20 insertion metastatic NSCLC, approximately 33 percent of patients received single-agent immunotherapy, 14.1 percent received an EGFR-targeting oral agent, 5.9 percent received chemoimmunotherapy combination, 5.9 percent received chemotherapy with a VEGF inhibitor, 5.9 percent received a clinical study drug, and the remainder received a variety of single-agent chemotherapies or other regimens. The applicant stated this re-iterates the lack of an accepted standard of care for the second-line treatment of exon 20 insertion metastatic NSCLC and thus underscores the unmet need of these patients. According to the applicant, based on the Breakthrough Therapy designation for amivantamab, it is anticipated that amivantamab’s first expected approval will be for the second-line treatment of exon 20 insertion metastatic NSCLC.

The applicant provided three references to support a finding of substantial clinical improvement for amivantamab as well as some supplementary information in the application itself. The first reference was a conference presentation given at the 2019 Annual Meeting of the Society for Clinical Oncology titled “Amivantamab (INJ–61186372), an anti-EGFR–MET bispecific antibody, in patients with EGFR Exon 20 insertion (Exon20ins)-mutated non-small cell lung cancer (NSCLC)” by Park et al. The third was a conference presentation given in January 2021 at the World Conference on Lung Cancer titled “Amivantamab in Post-platinum EGFR Exon 20 Insertion Mutant Non-small Cell Lung Cancer” by Sabari et al.

These three references all describe the ongoing Phase 1 trial titled “A Phase 1, First-in-Human, Open-Label, Dose Escalation Study of INJ–61186372, a Human Bispecific EGFR and c-MET Antibody, in Subjects With Advanced Non-Small Cell Lung Cancer” (https://clinicaltrials.gov/ct2/show/NCT02609776). This open label, multicenter, first-in-human study, also known as “CHRYSALIS,” consists of two parts. Part 1 was a dose escalation study used to establish the recommended Phase 2 dosing regimen. Part 2 was a dose expansion study to assess safety and efficacy at the recommended Phase 2 dosing regimen. The primary efficacy endpoint was the overall response rate per Response Evaluation Criteria in Solid Tumors v1.1. Key secondary endpoints included clinical benefit rate (CBR), duration of response (DOR), progression-free survival (PFS), and overall survival (OS). Key eligibility criteria for the post-platinum population of patients enrolled in the study included: Metastatic/unresectable NSCLC, EGFR exon 20 insertion mutation, and progression on platinum-based chemotherapy. Patients received the recommended Phase 2 dose of 1050 mg (1400 mg for patients ≥80 kg) amivantamab intravenously once weekly for the first cycle and biweekly thereafter. The safety population


37 Flatiron Health database, Second Line Treatment Regimens in Advanced NSCLC (January 2015–October 2019).

38 https://clinicaltrials.gov/ct2/show/study/NCT02609776


40 Ibid.

41 Ibid.

42 Ibid.

43 Ibid.

44 Ibid.

45 Ibid.
(N=114) included all post-platinum exon 20 ins patients who received amivantamab at the recommended Phase 2 dose, and the response-evaluable population (n=81) included post-platinum exon 20 ins patients who had at least three disease assessments or had discontinued, progressed, or died prior to the third post-baseline assessment at the time of clinical cut-off.45

In the efficacy population, the median age was 62.46 In addition, 59 percent of the patients were female, 49 percent of the patients were Asian, and 47 percent had a history of smoking.47 Median time from initial diagnosis was 17 months with a range of 1–130 months.48 All patients, by definition, had a prior history of platinum-based chemotherapy while 46 percent had prior immunoncology therapy and 25 percent had a history of EGFR TKI treatment.49

In the safety population, 98 percent of patients experienced a treatment-related adverse event.50 Of these, 16 percent were Grade 3 or higher, 9 percent were serious, 4 percent led to discontinuation, 13 percent led to dose reduction, and 21 percent led to dose interruption.51 Of note, 2 percent discontinued due to rash and 10 percent had treatment-related diarrhea with 8.5 percent at grade 1–2 and 3.5 percent at grade 3.52

The applicant stated that preliminary safety results from the CHRYSALIS trial presented at the 2020 ASCO meeting appear to demonstrate that amivantamab has a manageable safety profile, with 60% of adverse events at grade 1 to 2.53 Per the applicant, this appears to be an improvement relative to the types and frequency of adverse events reported for platinum-based chemotherapy overall in advanced NSCLC, with over half of patients reporting adverse events of grade 3 to 5, such as neutropenia, nausea, and vomiting.54 The applicant noted the best tolerated EGFR-targeting oral agent osimertinib was associated with a rate of discontinuation due to adverse events of 13 percent in the phase 3 FLAURA study.55 In addition, the applicant noted osimertinib was associated with a rate of any grade diarrhea of 58 percent with 2 percent of patients having grade 3 or higher in this study.56 In the same phase 3 FLAURA study, the applicant noted the comparator arm (gefitinib or erlotinib) was associated with a 57 percent incidence of any grade diarrhea with 2 percent of patients experiencing grade 3 or higher.

Regarding efficacy, in the Sabari et al. reference, a blinded independent central review found in ORR in the efficacy population of 40 percent (95 percent CI 29–51) and a median DOR of 11.1 months (95 percent CI 6.9–not reached).57 Patients experienced a complete response in 4 percent of cases, partial response in 36 percent of cases, stable disease in 48 percent of cases, progressive disease in 10 percent of cases, and one percent of patients was not evaluable.58 Finally, the CBR (defined as complete response, partial response, or stable disease for at least two disease assessments) was 74 percent (95 percent CI 63–83).59 The median patient follow-up in this most recent analysis was 9.7 months (range 1.1–29.3). Of note, 47 percent of patients remained on treatment at time of data cutoff and 63 percent had responses of at least six months.60 The median PFS was 8.3 months (95 percent CI 6.5–10.9).61 The median overall survival was 22.8 months (95 percent CI 14.6–not reached).62

The applicant stated that, while direct comparison between therapies cannot be definitively made in the absence of comparative trials, amivantamab results appear promising and numerically better than those expected with current therapies (chemotherapy, immunotherapy, chemoimmunotherapy combination, or oral EGFR tyrosine kinase inhibitors) based on available data. The applicant stated platinum-based chemotherapy has been associated with a median progression free survival of 5.1 to 6.0 months in patients with exon 20 T790m mutations—the most common mutation observed following resistance to small molecule TKI inhibitors commonly used in advanced EGFR mutation positive NSCLC.63 The applicant stated that oral EGFR tyrosine kinase inhibitors (for example, erlotinib, gefitinib, afatinib, dacomitinib, osimertinib) and immunotherapies are also used to treat patients with exon 20 insertion metastatic NSCLC but generally have limited efficacy as exon 20 insertion mutations have been associated with resistance to EGFR tyrosine kinase inhibitors.64 The applicant stated most immunotherapy and chemoimmunotherapy studies have excluded patients with EGFR mutation because single-agent immunotherapies have very limited efficacy in patients with EGFR-mutated NSCLC.

The applicant provided the following table 1, which outlines median progression free survival (mPFS) and response rate (ORR) data among patients with exon 20 insertion mutation for amivantamab and some of the currently existing therapies. The applicant noted this table is intended to provide general information about individual therapies and is not intended for making direct comparisons between therapies as differences between study populations, follow-up time, prior treatments, and other factors may exist.

<table>
<thead>
<tr>
<th></th>
<th>Chemotherapy</th>
<th>Afatinib</th>
<th>Osimertinib</th>
<th>Erlotinib/Gefitinib</th>
<th>Amivantamab</th>
</tr>
</thead>
<tbody>
<tr>
<td>mPFS</td>
<td>5.7 months</td>
<td>2.7 months</td>
<td>3.7 months</td>
<td>&lt; 3 months</td>
<td>8.6 months</td>
</tr>
<tr>
<td>ORR</td>
<td>29%</td>
<td>9%</td>
<td>6%</td>
<td>8% - 27%</td>
<td>41%</td>
</tr>
</tbody>
</table>

Finally, the applicant cited an analysis presented at the 2020 American Society of Clinical Oncology (ASCO) Annual Meeting, which found patients experienced a median ORR of 13% and PFS of 3.5 months when receiving a wide variety of different therapies, including immunotherapies, chemoimmunotherapies, EGFR-targeting TKIs, and other chemotherapy regimens as second-line treatment.64

After review of the information provided by the applicant, we have the following concerns regarding whether the technology meets the substantial clinical improvement criterion. Currently, results provided by the applicant are based on an ongoing Phase 1 trial. We are concerned that these are potentially partial results, from which end conclusions may not be drawn, and also about the potential for overestimating treatment effects when trials stop early or report interim results. We further note that the only study cited by the applicant to establish substantial clinical improvement is a single-arm study assessing the safety and efficacy of amivantamab in the target population. As noted by the applicant, no formal comparisons to other therapies have been made. Without the ability to control for factors such as study design, patient characteristics, etc., we may be unable to determine whether any differences seen are the result of amivantamab’s potentially superior efficacy or confounding variables. We also note that the single-arm study design results in an inability to distinguish between the effect of amivantamab treatment, a placebo effect, and the effect of natural course of the disease.

We are inviting public comments on whether amivantamab meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for amivantamab.

c. Breyanzi® (lisocabtagene maraleucel)

Juno Therapeutics, a Bristol-Myers Squibb Company, submitted an application for new technology add-on payment for FY 2022 for Breyanzi®. Breyanzi® is a CD19-directed, autologous chimeric antigen receptor (CAR) T-cell immunotherapy that is comprised of individually formulated CD8 (killer) and CD4 (helper) CAR T-cells indicated for the treatment of adult patients with relapsed or refractory (r/r) large B-cell lymphoma after at least two prior therapies. We note that Juno Therapeutics previously submitted an application for new technology add-on payments for Breyanzi® for FY 2021, as summarized in the FY 2021 IPPS/LTCI PPS proposed rule, under the name lisocabtagene maraleucel (85 FR 32647–32652).

According to the National Comprehensive Cancer Network, Diffuse Large B-cell Lymphoma (DLBCL) is the most common type of Non-Hodgkin’s Lymphoma (NHL) in the U.S. and worldwide, accounting for nearly 30% of newly diagnosed cases of B-cell NHL in U.S.65 DLBCL is characterized by spreading of B-cells through the body that have either arrived de novo or by the transformation from indolent lymphoma.

According to the applicant, the standard-of-care, first-line immune-chemotherapy for DLBCL includes regimens such as cyclophosphamide, doxorubicin, vincristine, and prednisone plus rituximab (R–CHOP).66 These regimens result in long-lasting remission in more than 50% of patients.67 However, approximately 10% to 15% of patients will have primary refractory disease (that is, nonresponse or relapse within 3 months of first-line therapy), and an additional 20% to 25% will relapse following an initial response to therapy. Patients with relapses of aggressive B-cell lymphomas are believed to have a poor prognosis because of potential treatment resistance and rapid tumor growth, with only about 30% to 40% responding to salvage chemotherapy (for example, R–ICE, DHAP, or Gem-ox) followed by high-dose therapy and autologous stem cell transplantation for patients demonstrating chemotherapy-sensitive disease.68 Among patients eligible to undergo autologous stem cell transplantation (ASCT), only 50% will achieve a remission adequate to proceed to ASCT, and approximately 50% will relapse after transplantation.71 The applicant also noted that transplant eligibility is also restricted based on age and tolerance to high dose chemotherapy and thus excludes a moderate subset of patients with r/r DLBCL.

Additionally, the applicant explained that the available therapies for 3L+ large B-cell lymphoma include the following:

• CD19-directed genetically modified autologous CAR T-cell immunotherapy axicabtagene ciloleucel (YESCARTA®), approved in May 2018, for the treatment of adult patients with r/r large B-cell lymphoma after two or more lines of systemic therapy, including DLBCL not otherwise specified, primary mediastinal large B-cell lymphoma, high grade B-cell lymphoma, and DLBCL arising from follicular lymphoma (FL).72
• CAR T-cell therapy tisagenleucel (KYMRIAH®), approved in 2018, for the treatment of adult and pediatric patients with refractory primary mediastinal B-cell lymphoma (PMBCL), or who have relapsed after two or more prior lines of therapy.74
• CD79b-directed antibody-drug conjugate polatuzumab vedotin (POLIVY®), in combination with bendamustine and rituximab, approved in 2019, for the treatment of adult patients with r/r DLBCL, not otherwise specified, after at least two prior therapies.75

67 Ibid
68 Ibid
71 Ibid
72 YESCARTA®’s approval was based on a single arm study (ZUMA–1) demonstrating an IRC- assessed ORR of 72%, CR of 51%, and an estimated median DOR of 9.2 months in 101 subjects included in the modified intent-to-treat (mITT) population.
73 KYMRIAH®’s approval was based on a single-arm study (JULIET) demonstrating an ORR of 50% and a CR rate of 32% in 68 efficacy-evaluable subjects. A median DOR was not reached with a median follow-up of 9.4 months.
74 KEYTRUDA is not recommended for treatment of patients with PMBCL who require urgent cytoreductive therapy. Keytruda USPI (2019).
According to the applicant, despite the availability of these therapies, r/r large B-cell lymphoma remains a major cause of morbidity and mortality due to the aggressive disease course. The applicant noted that the safety profiles of these therapies exclude many r/r large B-cell lymphoma patients from being able to undergo treatment with these therapies.75

With respect to the newness criterion, the applicant submitted a BLA for Breyanzi® in October 2019, and was approved by FDA on February 5, 2021. Breyanzi® was granted Breakthrough Therapy Designation (BTD) on December 15, 2016 and Regenerative Medicine Advanced Therapy (RMAT) designation on October 20, 2017, for the treatment of patients with r/r aggressive large B-cell NHL, including DLBCL, not otherwise specified (DLBCL NOS; de novo or transformed from indolent lymphoma), primary mediastinal B-cell lymphoma (PMBCL), or follicular lymphoma Grade 3B (FL3B)). Breyanzi® is a CD19-directed genetically modified autologous CAR T-cell therapy indicated for the treatment of adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma (DLBCL) not otherwise specified (including DLBCL arising from indolent lymphoma), high-grade B-cell lymphoma, primary mediastinal large B-cell lymphoma, and follicular lymphoma grade 3B.

Breyanzi® is not indicated for the treatment of patients with primary central nervous system lymphoma. We note that effective October 1, 2021 the following ICD–10–PCS codes may be used to uniquely describe procedures involving the infusion of Breyanzi®: BW033N7 (Introduction of lisocabtagene maraleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7) and WX043N7 (Introduction of lisocabtagene maraleucel immunotherapy into central vein, percutaneous approach, new technology group 7). The applicant also submitted a request for a new HCPCS code, which will uniquely describe procedures involving the use of Breyanzi®. The applicant noted in their application that Breyanzi® would likely map to the same MS–DRG as other CAR T-cell therapies, MS–DRG 018 (Chimeric Antigen Receptor (CAR) T-cell Immunotherapy). As previously discussed, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or a similar mechanism of action to achieve a therapeutic outcome, the applicant described two ways in which it believes the mechanism of action for Breyanzi® differs from previously approved therapies for DLBCL. First, the applicant described the therapy as being comprised of individually formulated cryopreserved patient-specific helper (CD4) and killer (CD8) CAR T-cells in suspension that are administered as a defined composition of CAR-positive viable T-cells (from individually formulated CD8 and CD4 components). The applicant stated that the therapy involves a different mechanism of action from other CAR–T cell therapies because the CD4 and CD8 T-cells are purified and cultured separately to maintain compositional control of each cell type. Furthermore, during culture, each cell type is separately modified to have the CAR on the cell surface, expanded and quantified, and frozen in two separate cell suspensions. The applicant then described how Breyanzi® is infused with the same target dose of CD4 and CD8 CAR T-cells for every patient. The applicant asserted that because Breyanzi® controls the same dosage for both CD4 and CD8, it differs from other CAR T-cell therapies for DLBCL and could potentially provide for higher safety and efficacy; the applicant stated that CAR T-cell therapies that do not control for CD8 CAR T-cell dosage have demonstrated higher rates of severe and life-threatening toxicities, such as cytokine release syndrome (CRS) and neurotoxicity (NT).

The second feature the applicant described as distinguishing Breyanzi®’s mechanism of action from existing CD19-directed CAR T-cell therapies was the presence of an EGFRt cell surface tag. The applicant explained that the EGFRt cell surface tag could hypothetically be targeted for CAR T-cell clearance by separately administering cetuximab, a monoclonal antibody. According to the applicant, if the patient was separately administered cetuximab, the presence of the EGFRt cell surface tag within Breyanzi® would allow cetuximab to bind to the CAR T-cells and clear the cells from the patient. The applicant highlighted studies that showed that persistent functional CD19-directed CAR persists in patients caused sustained depletion of a patient’s normal B-cells that expressed CD19, resulting in hypogammaglobulinemia and an increased risk of life-threatening or chronic infections.76 The applicant further explained that such prolonged low levels of normal B-cells could place a patient at risk of life-threatening or chronic infections. According to the applicant, the ability to deplete CAR T-cells, via the administration of cetuximab, when a patient achieves a long-term remission could hypothetically allow recovery of normal B-cells and potentially reduce the risk of life-threatening or chronic infections. The applicant noted that experiments in a laboratory setting showed that targeting EGFRt with the monoclonal antibody cetuximab eliminated CAR T-cells expressing the EGFRt marker, which resulted in long-term reversal of B-cell aplasia in mice.77 However, the applicant noted that this mechanism of CAR T-cell clearance, via administration of cetuximab and EGFRt cell surface tags/markers, has not been tested in humans, including patients treated with Breyanzi®.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant acknowledged that the ICD–10–PCS procedure codes used to uniquely identify procedures involving the administration of Breyanzi®: BW033N7 (Introduction of lisocabtagene maraleucel Immunotherapy into peripheral vein, percutaneous approach, new technology group 7) and WX043N7 (Introduction of lisocabtagene maraleucel Immunotherapy into central vein, percutaneous approach, new technology group 7) are assigned to MS–DRG 018 (Chimeric Antigen Receptor (CAR) T-cell Immunotherapy). The applicant has not made a request for the technology to map to a new or different MS–DRG for FY 2022.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, according to the applicant, Breyanzi® fills an unmet need in the treatment of large B-cell lymphoma because Breyanzi® would be indicated as a third-line treatment option for patients with r/r DLBCL, who cannot be treated with existing CAR T-
cell therapies. The applicant asserted that Breyanzi® would be able to treat these patients that present with uncommon subtypes of DLBCL including, PMBCL, FL3B, and DLBCL transformed from indolent lymphoma from other follicular lymphoma, elderly patients (≥65 years old), patients with secondary CNS involvement by lymphoma, and those with moderate renal or cardiac comorbidities. The applicant asserted that these patient populations were excluded from registrational trials for YESCARTA® and KYMRIAH®, and therefore represent an unmet patient need.

Regarding newness, we are concerned whether a differing production and/or dosage represents a different mechanism of action as compared to previously FDA-approved CAR T-cell therapies. We are also concerned about whether the existence of an EGFRt cell surface tag equates to a new mechanism of action given that in order to activate this cell surface tag, an additional medication, cetuximab, which targets the CAR T-cells for clearance, would be needed. We also express concern that, based on our understanding, the presence of the EGFRt cell surface tag is a potential way to treat an adverse event of the Breyanzi® therapy and is not critical to the way the drug treats the underlying disease. We note that the applicant referenced that while this EGFRt cell surface tag is included within the Breyanzi® compound, it remains dormant without activation by cetuximab. Finally, the applicant noted that Breyanzi® has been shown safe and effective for patient populations excluded from registrational trials for YESCARTA® and KYMRIAH®, including patients with uncommon subtypes of large B-cell lymphoma, including PMBCL, FL3B, and DLBCL transformed from indolent lymphoma other than FL, elderly patients (≥65 years old), patients with secondary CNS involvement by lymphoma and those with moderate renal or cardiac comorbidities.78

We are inviting public comments on whether Breyanzi® is substantially similar to other technologies and whether Breyanzi® meets the newness criterion.

With regard to the cost criterion, the applicant searched the FY 2019 MedPAR correction notice (December 1, 2020) data file to identify potential cases representing patients who may be eligible for treatment using Breyanzi®. The applicant identified claims that reported an ICD–10–CM diagnosis code of: C83.30 (DLBCL, unspecified site); C83.31 (DLBCL, lymph nodes of head, face and neck); C83.32 (DLBCL, intrathoracic lymph nodes); C83.33 (DLBCL, intra-abdominal lymph nodes); C83.34 (DLBCL, lymph nodes of axilla and upper limb); C83.35 (DLBCL, lymph nodes of inguinal region and lower limb); C83.36 (DLBCL, intrapelvic lymph nodes); C83.37 (DLBCL, spleen); or C83.38 (DLBCL, lymph nodes of multiple sites) in one of the first five diagnosis code positions on the claim. The applicant excluded claims if they had one or more diagnoses from the list below because these conditions would preclude use of Breyanzi®.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C72</td>
<td>Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system</td>
</tr>
<tr>
<td>C72.0</td>
<td>Malignant neoplasm of spinal cord</td>
</tr>
<tr>
<td>C72.1</td>
<td>Malignant neoplasm of cauda equina</td>
</tr>
<tr>
<td>C72.2</td>
<td>Malignant neoplasm of olfactory nerve</td>
</tr>
<tr>
<td>C72.20</td>
<td>Malignant neoplasm of unspecified olfactory nerve</td>
</tr>
<tr>
<td>C72.21</td>
<td>Malignant neoplasm of right olfactory nerve</td>
</tr>
<tr>
<td>C72.22</td>
<td>Malignant neoplasm of left olfactory nerve</td>
</tr>
</tbody>
</table>

78 Lisocabtagene maraleucel Biologics License Application (BLA).
<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C72.3</td>
<td>Malignant neoplasm of optic nerve</td>
</tr>
<tr>
<td>C72.30</td>
<td>Malignant neoplasm of unspecified optic nerve</td>
</tr>
<tr>
<td>C72.31</td>
<td>Malignant neoplasm of right optic nerve</td>
</tr>
<tr>
<td>C72.32</td>
<td>Malignant neoplasm of left optic nerve</td>
</tr>
<tr>
<td>C72.4</td>
<td>Malignant neoplasm of acoustic nerve</td>
</tr>
<tr>
<td>C72.40</td>
<td>Malignant neoplasm of unspecified acoustic nerve</td>
</tr>
<tr>
<td>C72.41</td>
<td>Malignant neoplasm of right acoustic nerve</td>
</tr>
<tr>
<td>C72.42</td>
<td>Malignant neoplasm of left acoustic nerve</td>
</tr>
<tr>
<td>C72.5</td>
<td>Malignant neoplasm of other and unspecified cranial nerves</td>
</tr>
<tr>
<td>C72.50</td>
<td>Malignant neoplasm of unspecified cranial nerve</td>
</tr>
<tr>
<td>C72.59</td>
<td>Malignant neoplasm of other cranial nerves</td>
</tr>
<tr>
<td>C72.9</td>
<td>Malignant neoplasm of central nervous system, unspecified</td>
</tr>
<tr>
<td>G40-G40.919</td>
<td>Epilepsy and recurrent seizures</td>
</tr>
<tr>
<td>A52.17</td>
<td>General paresis</td>
</tr>
<tr>
<td>R47.01</td>
<td>Aphasia</td>
</tr>
<tr>
<td>S06-S06.9X9S</td>
<td>Intracranial injury</td>
</tr>
<tr>
<td>G20</td>
<td>Parkinson's disease</td>
</tr>
<tr>
<td>G32.81</td>
<td>Cerebellar ataxia in diseases classified elsewhere</td>
</tr>
<tr>
<td>G11</td>
<td>Hereditary ataxia</td>
</tr>
<tr>
<td>G11.0</td>
<td>Congenital nonprogressive ataxia</td>
</tr>
<tr>
<td>G11.1</td>
<td>Early-onset cerebellar ataxia</td>
</tr>
<tr>
<td>G11.2</td>
<td>Late-onset cerebellar ataxia</td>
</tr>
<tr>
<td>G11.3</td>
<td>Cerebellar ataxia with defective DNA repair</td>
</tr>
<tr>
<td>G11.4</td>
<td>Hereditary spastic paraplegia</td>
</tr>
<tr>
<td>G11.8</td>
<td>Other hereditary ataxias</td>
</tr>
<tr>
<td>G11.9</td>
<td>Hereditary ataxia, unspecified</td>
</tr>
<tr>
<td>I60-199</td>
<td>Cerebrovascular diseases</td>
</tr>
<tr>
<td>F01-F99</td>
<td>Mental, Behavioral and Neurodevelopmental disorders</td>
</tr>
<tr>
<td>C88</td>
<td>Malignant immunoproliferative diseases and certain other B-cell lymphomas</td>
</tr>
<tr>
<td>C88.0</td>
<td>Waldenstrom macroglobulinemia</td>
</tr>
<tr>
<td>C90</td>
<td>Multiple myeloma and malignant plasma cell neoplasms</td>
</tr>
<tr>
<td>C90.1</td>
<td>Plasma cell leukemia</td>
</tr>
</tbody>
</table>
However, the applicant noted that the aforementioned C83.XX ICD–10–CM codes do not differentiate r/r patients from the broader DLBCL population. A clinical literature search completed by the applicant found that the r/r population makes up one-fourth of the DLBCL population, but since r/r patients typically have higher inpatient costs the applicant selected 19.36 percent of the cases with the highest total charges for their cost analysis. Applying the previously mentioned parameters, the applicant found a total of 991 cases mapped to 12 MS–DRGs.

The applicant stated that the use of Breyanzi®’s therapy would replace chemotherapy or other drug therapies, including other CAR T-cell therapies. Because of this, the applicant stated they removed all charges in the drug cost center since it was not possible to differentiate between different drugs on inpatient claims. The standardized charges per case were then calculated using the 2019 IPPS/LTCH PPS final rule Impact file and the 2-year inflation factor of 13.2 percent (1.3218) was applied. Finally, to determine the charges for Breyanzi®, the applicant used the inverse of a simulated alternative cost-to-charge ratio (CCR) specifically for CAR T–CELL therapies to account for CAR T-cell therapies’ higher costs compared to other drugs. To determine this alternative CCR for CAR T-cell therapies, the applicant referred to the FY 2021 IPPS final rule AOR/BOR file and calculated an alternative markup percentage by dividing the AOR drug charges within MS–DRG 018 by the number of cases to determine a per case drug charge. The applicant then divided the drug charges per case by $373,000, the acquisition cost of YESCARTA and KYMRIAH, the CAR T-cell products used in those claims, to arrive at a CCR of 0.295. The applicant noted that the cost of Breyanzi® had not yet been determined at the time of application. However, for the purposes of its cost analysis, the applicant assumed the per-patient cost to the hospital will be $373,000. Based on the FY 2021 IPPS/LTCH PPS final rule correction notice data file thresholds for FY 2022, the applicant calculated a final inflated average case-weighted standardized charge per case of $1,377,616 which exceeded the MS–DRG 018 average case-weighted threshold of $1,251,127 by $126,489. Therefore, the applicant stated that Breyanzi® met the cost criterion.

As noted in previous discussions, the submitted costs for CAR T-cell therapies vary widely due to differences in provider billing and charging practices for this therapy. Therefore, with regard to the use of this data for purposes of calculating a CAR T-cell CCR, we are uncertain how representative this data is for use in the applicant’s cost analyses given this potential for variability.

We continue to be interested in public comments regarding the eligibility of CAR T-cell technologies for new technology add-on payments when assigned to MS–DRG 018. As we have noted in prior rulemaking with regard to the CAR T-cell therapies (83 FR 41172 and 85 FR 58603 through 58608), if a new MS–DRG were to be created, then consistent with section 1886(d)(5)(K)(ix) of the Act, there may no longer be a need for a new technology add-on payment under section 1886(d)(5)(K)(ii)(III) of the Act. We welcome comment on this issue.
We invite public comment on whether Breyanzi® meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that Breyanzi® represents a substantial clinical improvement over existing technologies because: (1) The totality of the circumstances regarding Breyanzi®’s clinical efficacy, safety, and data make clear that Breyanzi® substantially improves, relative to services or technologies previously available, the treatment of Medicare beneficiaries with R/R NHL; (2) Breyanzi® offers a treatment option for a patient population unresponsive to, or ineligible for, currently available treatments; (3) Breyanzi® has, overall, an improved safety profile compared to YESCARTA and KYMRIAH; (4) Breyanzi® has a comparable or superior effectiveness compared to existing therapies; and (5) Breyanzi®’s patient population in its registrational study more accurately reflects real-world NHL patients compared to the studies of currently available CAR T-cell therapies.

The applicant asserts that the totality of the clinical efficacy and safety data from the TRANSCEND NHL 001 trial, which is a prospective, single arm, multicenter study of Breyanzi® in patients with r/r aggressive B-cell NHL, and the supportive safety data from the Breyanzi® clinical studies included in their Biologics License Application (BLA) submission demonstrate that Breyanzi® has equal or better efficacy and a better safety profile in a broad R/ R patient population that better approximates the real world large B-cell lymphoma patient population—a population that the applicant asserted includes NHL subtypes not studied or approved for treatment with current approved or conditionally approved agents.

The applicant shared the results of the Phase I TRANSCEND NHL 001 trial, which was a prospective, single arm, multicenter study of lisocabtagene maraleucel in patients with relapsed/refractory aggressive B-cell NHL. The applicant noted that TRANSCEND NHL 001 included subjects with the average age of 63 years with 111 subjects (41%) over 65 years of age and 27 (10%) subjects older than 75 years of age. These patients also failed previous therapies. Of the total number of subjects studied (efficacy: n=256; safety: n=269), 137 subjects (51%) had DLBCL, 60 (22%) had DLBCL transformed from FL, 19 (7%) had DLBCL transformed other indolent lymphomas, 36 patients (13%) had high grade lymphoma, 15 (6%) had PMBCL and 31% had FL3B. Additionally, the applicant explained that TRANSCEND NHL 001 was more inclusive, compared to the registrational trials for KYMRIAH® and YESCARTA®, of Medicare aged patients with comorbidities and NHL disease subtypes seen in the real world presentation of the disease. To support this, the applicant referenced that within this study, between 40% to 50% of subjects studied had cardiac ejection fraction, 3% had secondary CNS lymphoma, 51 patients (19%) had a creatinine clearance between 30–60 mL/min and 39 patients (14.6%) had grade ≥3 cytopenias. Furthermore, the applicant noted that 51 patients (19%) had decreased renal function and 13 patients (4.9%) had decreased cardiac function. The applicant stated that the TRANSCEND NHL 001 study showed that the patient population treated during the study better reflected the real world large B-cell lymphoma patient population because: (1) The totality of the improvement over existing technologies represents a substantial clinical need. The applicant contended that these high-unmet need large B-cell lymphomas other than FL, patients with FL3B, patients 65 years of age and older, as well as patients with moderate comorbidities of renal and cardiac insufficiency.

The applicant further explained that Breyanzi® provided improved effectiveness as compared to existing therapies. Patients with aggressive large B-cell NHL who have failed at least 2 prior therapies or SCT are treated with combinations of agents or monotherapy based on institutional preferences, but there is no standard of care for salvage therapies beyond first treatment therapy.® The applicant noted that compared to salvage therapies (non-CAR T-cell therapies) for relapsed/refractory large B-cell lymphoma demonstrated objective response rates (ORRs) in the range of 12% to 46% and complete response (CR) rate of 6% to 38%. Among the patients who did achieve a response, the median duration of response (DOR) ranges from approximately 6 to 17 months and median overall survival was generally less than 12 months.® Comparatively, TRANSCEND NHL 001, which provided subjects with Breyanzi®, met its primary endpoint of Independent Review Committee (IRC)-assessed ORR in adult patients with r/r large lymphoma after at least 2 prior therapies, as reported by the applicant. In the 256 efficacy evaluable patients, the ORR was 73% (95% confidence interval (CI): 67.0% to 78.3%), and the CR rate was 53% (95% CI: 46.6% to 59.2%). With a median follow-up of 10.8 months, the median DOR per IRC was 10.8 months, the median DOR per IRC- assessed ORR in adult patients with r/r large lymphoma after at least 2 prior therapies, as reported by the applicant. In the 256 efficacy evaluable patients, the ORR was 73% (95% confidence interval (CI): 62.0% to 81.0%). Also, according to the applicant, KYMRIAH®, as demonstrated by the Phase II JULIET study (see the FY 2019 IPPS/LTC PPS final rule 83 FR 41295 for a description of this study), had an ORR of 50.0% (95% confidence interval (CI: 38.0% to 62.0%)). The applicant contended that the results for Breyanzi® (ORR of 73% (95% confidence interval (CI): 67.0% to 78.3%), and the CR rate of 53% (95% CI: 46.6% to 59.2%) were observed across all subgroups tested, including

elderly subjects, those with high burden disease or high baseline inflammatory biomarkers, those requiring anti-lymphoma therapy for disease control, as well as rare patient populations with a high unmet medical need (for example, PMBCl, DLBCL transformed from indolent lymphoma other than FL, and FL3B). The applicant contended that this data supports that Breyanzi® demonstrates comparable or superior effectiveness compared to existing therapies for patients with r/r large B-cell NHL.90,91

Furthermore, the applicant stated that Breyanzi® had an improved safety profile in comparison to YESCARTA® and KYMRIAH®. The applicant stated that both of these FDA-approved CAR T-cell therapies had higher rates of toxicity as compared to Breyanzi®. In the TRANSCEND NHL 001 registrational study (n=268), 42% and 2% of subjects developed all-grade and Grade >3 CRS, respectively, and 30% and 10% developed all-grade and Grade >3 NT. The applicant compared these results to the results of the JULIET study as found in KYMRIAH®’s prescribing information and summarized that KYMRIAH® had higher rates of all-grade and Grade >3 CRS (74% and 23%, respectively) and all-grade and Grade >3 NT (58% and 18%, respectively). The applicant provided the same comparison of the toxicity results of Breyanzi® to the results showcased in the ZUMA–1 study featuring YESCARTA®’s prescribing information and summarized that YESCARTA® had higher rates of all-grade and Grade >3 CRS (94% and 13%, respectively) and all-grade and Grade >3 NT (87% and 31%, respectively).90,91

After reviewing the information submitted by the applicant as part of its FY 2022 new technology add-on payment application, we are concerned that there are no published studies directly comparing Breyanzi® and the two currently available CAR T-cell therapies for r/r DLBCL, YESCARTA® and KYMRIAH®. Additionally, we are concerned with the lack of long-term data supporting the effectiveness and efficacy of Breyanzi® and whether the lack of long-term data may limit the generalizability of the findings from the TRANSCEND NHL 001 study to the general Medicare population. While there have been no direct comparison studies of Breyanzi®, YESCARTA® and KYMRIAH®, the applicant does provide a comparison of the ORR, CR, PR and DOR across all three CAR T-cell therapies. While we note that Breyanzi® does appear to provide an improved ORR, CR, PR, and DOR compared to the other FDA-approved CAR T-cell therapies based on the data presented by the applicant, we further note that these differences appear to be small in magnitude, between 1–2% for the ORR, CR, and PR. Without a direct comparison of outcomes between these therapies, we are concerned as to whether these differences translate to clinically meaningful differences or improvements. Breyanzi® appears to demonstrate similar patient outcomes to that of YESCARTA® and we question whether the TRANSCEND NHL 001 study is evidence that Breyanzi® is a more effective therapy to treat DLBCL over existing CAR T-cell therapies. Additionally, as previously discussed, the applicant noted that Breyanzi® has been shown safe and effective for patient populations excluded from registrational trials for YESCARTA® and KYMRIAH®. However, it is unclear whether this suggests that Breyanzi® is a treatment option for patients who cannot be treated with these existing CAR T-cell therapies, given that the FDA label for YESCARTA® and KYMRIAH® appears to not specifically exclude these patient populations. Finally, we are concerned that the use of the EGFRt cell surface tag was not activated in patients receiving Breyanzi® to study the impact of clearing these CAR T-cells after remission and that this feature has not yet been tested on humans or in conjunction with patients treated with Breyanzi®. We express concern regarding the safety and efficacy of this feature given its lack of testing.

We are inviting public comments on whether Breyanzi® meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for Breyanzi® or at the New Technology Town Hall meeting.

d. Ciltacabtagene Autoleucel

Janssen Biotech, Inc., submitted an application for a new technology add-on payments for ciltacabtagene autoleucel for FY 2022. Ciltacabtagene autoleucel is an autologous chimeric-antigen receptor (CAR) T-cell therapy directed against B cell maturation antigen (BCMA) for the treatment of patients with multiple myeloma.

Ciltacabtagene autoleucel refers to both JNJ–4528, an investigational BCMA-directed CAR T-cell therapy for previously treated patients with multiple myeloma, and LCAR–B38M, the investigational product (ciltacabtagene autoleucel) being studied in China. Both JNJ–4528 and LCAR–B38M are representative of the same CAR T-cell therapy, ciltacabtagene autoleucel. Ciltacabtagene autoleucel has not yet received FDA approval.

Multiple myeloma (MM) is typically characterized by the neoplastic proliferation of plasma cells producing a monoclonal immunoglobulin. The plasma cells proliferate in the bone marrow and can result in extensive skeletal destruction with osteolytic lesions, osteopenia, and/or pathologic fractures. The diagnosis of MM is often suspected because of one (or more) of the following clinical presentations:

- Bone pain with lytic lesions discovered on routine skeletal films or other imaging modalities.
- An increased total serum protein concentration and/or the presence of a monoclonal protein in the urine or serum.
- Systemic signs or symptoms suggestive of malignancy, such as unexplained anemia.
- Hypercalcemia, which is either symptomatic or discovered incidentally.
- Acute renal failure with a bland urinalysis or rarely nephrotic syndrome due to concurrent immunoglobulin light chain (AL) amyloidosis.

It is important to distinguish MM both from other causes of the clinical presentations mentioned previously and from other plasma cell dyscrasias for the purposes of prognosis and treatment.92 Data from the US Surveillance, Epidemiology, and End Results (SEER) registry estimate 32,000 new cases of MM and 13,000 deaths from MM annually in the U.S. This correlates with an annual incidence of approximately 7 per 100,000 men and women per year. MM is largely a disease of older adults. The median age at diagnosis is 65 to 74 years. MM is also slightly more frequent in men than in women (approximately 1.4:1). MM is associated with substantial morbidity and mortality.93

and approximately 25% of patients have a median survival of 2 years or less.\(^4\)

According to the applicant, introduction of new treatment options in the last 2 decades has extended the median survival of multiple myeloma patients. The applicant asserted that the introduction of proteasome inhibitors (PI) (e.g., bortezomib, carfilzomib, and ixazomib), histone deacetylase inhibitors (e.g., panobinostat, vorinostat), immunomodulatory agents (IMiD) (e.g., thalidomide, lenalidomide, and pomalidomide), monoclonal antibodies (daratumumab and elotuzumab), and stem cell transplantation, have allowed numerous therapeutic options for patients with multiple myeloma (Rajkumar 2020). According to the applicant, the National Comprehensive Cancer Network (NCCN) recommended treatment regimen for first-line therapy of multiple myeloma is Bortezomib (a proteasome inhibitor (PI)), lenalidomide (an immunomodulatory agent (IMiD)) and dexamethasone.\(^5\) The strategy of triplet therapies for patients with newly diagnosed multiple myeloma, followed by high-dose chemotherapy and autologous stem-cell transplantation for eligible patients, and subsequently consolidation and maintenance therapy, is the current treatment roadmap for patients.\(^6\) However, despite these treatments, according to the applicant, most patients will relapse after first-line treatment and require further treatment\(^7\) with only 50% survival of relapsed patients after 5 years.\(^8,9\) As multiple myeloma progresses, each subsequent line of treatment is associated with shorter progression free survival (PFS) and decreased rate, depth, and durability of response and worsening of quality of life.\(^10\) In addition, cumulative and long-term toxicities are often associated with long-term therapy (Ludwig, 2018). Thus, according to the applicant, there remains an ongoing need for additional therapeutic approaches when the disease is resistant to available therapy.

The applicant asserts that relapsed and refractory multiple myeloma (RRMM) constitutes a specific unmet medical need. According to the applicant, patients with r/r disease are defined as those who, having achieved a minor response or better, relapse and then progress while on therapy, or experience progression within 60 days of their last therapy.\(^11\) The introduction of a new class of agents, CD38-targeting monoclonal antibodies (CD38 MoAbs), daratumumab and isatuximab, have improved options in r/r patients.\(^12\) The applicant asserts that given these advances, guideline recommendations following first-line therapy are varied, with treatment options including combinations of novel agents with existing standard of care regimens, and triplet and quadruplet regimens, creating a complex treatment landscape.\(^13\) According to the applicant, while triplet regimens should be used as the standard therapy for patients with multiple myeloma, elderly or frail patients may be treated with double regimens.\(^14,15\) The applicant further states that for patients with RRMM who have received at least 3 prior lines of therapy including a PI, an IMiD and an anti-CD38, there does not exist a standard or consensus for treatment at this time, and often, supportive care/palliative care is the only option.\(^16\)

According to the applicant, multiple myeloma remains incurable and most patients eventually relapse, even with the advent of new treatments.\(^17\) The applicant further states that novel, innovative therapies are needed to improve long-term survival and outcomes. The applicant asserts that CAR T-cell-based therapies offer potential advantages over current therapeutic strategies. According to the applicant, while other therapies require long-term repetitive administration generally until progression of disease, CAR T-cell therapy is a single infusion treatment due to live T-cell expansion in the patient and long-term disease response. The applicant asserts that ciltacabtagene autoleucel is an autologous CAR T-cell therapy directed against B cell maturation antigen (BCMA) for the treatment of patients with multiple myeloma. The applicant states that BCMA, a protein that is highly expressed on myeloma cells\(^18\) and is a member of the tumor necrosis factor (TNF) receptor family, plays a central role in regulating B-cell maturation and differentiation into plasma cells.\(^19\) BCMA is selectively expressed on a subset of B cells (plasma cell neoplasms including myeloma cells) and is more stably expressed specifically on the B cell lineage, compared with key plasma cell marker CD138 which is also expressed on normal fibroblasts and epithelial cells.\(^10,11,110\) These expression characteristics, per the applicant, make BCMA an ideal therapeutic target for the treatment of multiple myeloma.\(^112,113\) Ciltacabtagene autoleucel, according to the applicant, is a unique, structurally differentiated BCMA-targeting chimeric antigen receptor with two distinct BCMA-binding domains that can identify and eliminate myeloma cells. The applicant asserts that CAR T-cell technology is a form of immunotherapy and is a “living drug” that utilizes specially altered T cells, part of the immune system, to fight cancer. A

---


sample of the patient’s T cells are collected from the blood, then modified in a laboratory setting to express a chimeric antigen receptor (CAR).\textsuperscript{114} Chimeric antigen receptors are specifically designed receptor proteins that are made up of three distinct features: (1) A target recognition domain (typically derived from a single domain of an antibody) that sits on the cell’s exterior. (2) a co-stimulatory domain on the cell’s interior that boosts activation, enhances survival and expansion of the modified cells, and (3) an interior stimulatory domain that supports activation and target killing.\textsuperscript{115} The binding domain expressed on the surface of T cells gives them the new ability to target a specific protein. When the target is recognized, the intracellular portions of the receptor send signals within the T cells to destroy the target cells. These engineered CAR T-cells are reinfused back into the same patient which enables these specialized T cells to latch onto the target antigen and abolish the tumor cells.

According to the applicant, ciltacabtagene autoleucel is a CAR T-cell immunotherapy designed to recognize myeloma cells and target their destruction. Ciltacabtagene autoleucel’s CAR T-cell technology consists of harvesting the patient’s own T cells, programming them to express a chimeric antigen receptor that identifies BCMA, a protein highly expressed on the surface of malignant multiple myeloma B-lineage cells, and reinfusing these modified cells back into the patient where they bind to and eliminate myeloma tumor cells. The applicant asserts that, unlike the chimeric antigen receptor design of currently approved CAR T-cell immunotherapies, which are composed of a single-domain antibody (sdAbs), ciltacabtagene autoleucel is composed of two antibody binding domains that allow for high recognition of human BCMA (CD269) and elimination of BCMA expressing myeloma cells. The two distinct BCMA-binding domains, according to the applicant, confer avidity and distinguish ciltacabtagene autoleucel from other BCMA-targeting products. The BCMA binding domains are linked to the receptor’s interior costimulatory (4–1BB) and signaling (CD3ζ) domains through a transmembrane linker (CD8a). These intracellular domains are critical components for T cell growth and anti-tumor activity\textsuperscript{116} in the body once CAR T-cells are bound to a BCMA target on multiple myeloma cells.

With respect to the newness criterion, according to the applicant, ciltacabtagene autoleucel was granted Breakthrough Therapy designation in December 2019 for the treatment of patients with RRMM who have previously received a PI, an IMiD, and an anti-CD38 antibody. In December 2020, the applicant submitted a Biologic License Application (BLA) with the FDA but at the time of the development of this proposed rule, it has not yet received FDA approval. The applicant stated that procedures involving the administration of ciltacabtagene autoleucel can be reported using the following ICD–10–PCS procedure codes: XW033C3 (Introduction of engineered autologous chimeric antigen receptor t-cell immunotherapy into peripheral vein, percutaneous approach, new technology group 3); and XW043C3 (Introduction of engineered autologous chimeric antigen receptor t-cell immunotherapy into central vein, percutaneous approach, new technology group 3). The applicant stated that there are currently no ICD–10–PCS codes that uniquely identify procedures involving the use of ciltacabtagene autoleucel. The applicant submitted a request for unique ICD–10–PCS codes to describe the administration of ciltacabtagene autoleucel beginning in FY 2022. The applicant also noted that they will submit a request for a Healthcare Common Procedure Coding System (HCPCS) code specific to the administration of ciltacabtagene autoleucel once the product is eligible for such a code.

As previously stated, if a technology meets all three of the substantial similarity criteria as previously described, it would be considered substantially similar to an existing technology and therefore would not be considered “new” for purposes of new technology add-on payments.

With respect to whether a product uses the same or a similar mechanism of action when compared to an existing technology to achieve a therapeutic outcome, the applicant asserts that ciltacabtagene autoleucel has a unique mechanism of action because it has two distinct binding domains that confer avidity to the BCMA antigen, a 4–1BB costimulatory domain and a CD3ζ signaling domain, whereas other CAR T-cell products have only one target binding domain. However, we note that idecabtagene vicleucel, another CAR T-cell therapy for which an application for new technology add-on payments was submitted for FY 2022, as discussed later in this section, appears to have a mechanism of action that is similar to that of ciltacabtagene: A chimeric antigen receptor (CAR)-positive T cell therapy targeting B-cell maturation antigen (BCMA), which is expressed on the surface of normal and malignant plasma cells. The idecabtagene vicleucel CAR construct includes an anti-BCMA scFv-targeting domain for antigen specificity, a transmembrane domain, a CD3ζ T cell activation domain, and a 4–1BB costimulatory domain. Antigen-specific activation of idecabtagene vicleucel results in CAR-positive T cell proliferation, cytokine secretion, and subsequent cytolytic killing of BCMA-expressing cells.

The applicant also asserts that its mechanism of action differs from Blenrep’s mechanism of action. Blenrep is a BCMA-targeting agent indicated in the treatment of MM. According to the applicant, Blenrep belongs to the class of antibody-drug conjugates, which are therapies that are essentially composed of a monoclonal antibody linked to a toxic drug. Once the antibody portion of Blenrep recognizes BCMA on multiple myeloma cells, the toxin is released into cells, resulting in cell death. Therefore, according to the applicant, ciltacabtagene autoleucel’s mechanism of action differs from Blenrep’s. Additionally, the applicant states that there is currently no commercially available CAR T-cell product that binds to the BCMA antigen. Lastly, the applicant provided a list of other currently available treatments for multiple myeloma and a description of their mechanisms of action (Table 1).


\textsuperscript{116} Maher J, Brentjens RJ, Gunset G, Rivière I, Sadelain M. Human T-lymphocyte cytotoxicity and proliferation directed by a single chimeric TCRζ/CD28 receptor.
With regard to whether a product is assigned to the same DRG when compared to an existing technology, the applicant expects that cases involving the administration of ciltacabtagene autoleucel will be assigned to the same MS–DRG, MS–DRG 018 (Chimeric Antigen Receptor (CAR) T-cell Immunotherapy), as other CAR T-cell therapies.

With regard to whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population when compared to an existing technology, the applicant asserts that ciltacabtagene autoleucel is indicated for a broader population than other available therapies, specifically multiple myeloma patients having received three prior therapies.

In summary, the applicant asserts that ciltacabtagene autoleucel meets the newness criterion and is not substantially similar to other available therapies because it has a unique mechanism of action with two distinct binding domains that confer avidity to the BCMA antigen, and because it treats patients who received three prior therapies. However, we note that ciltacabtagene autoleucel may have a similar mechanism of action to that of idecabtagene vicleucel, for which we received an application for new technology add-on payments for FY 2022 for the treatment of adult patients with relapsed or refractory multiple myeloma after four or more prior lines of therapy, including an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 monoclonal antibody. Per the new technology add-on payment application for idecabtagene vicleucel, the technology’s mechanism of action is described as targeting B-cell maturation antigen (BCMA), which is expressed on the surface of normal and malignant plasma cells. The chimeric antigen receptor (CAR) construct includes an anti-BCMA scFv-targeting domain for antigen specificity, a transmembrane domain, a CD3-zeta T cell activation domain, and a 4–1BB costimulatory domain.

Antigen-specific activation of idecabtagene vicleucel results in CAR-positive T cell proliferation, cytokine secretion, and subsequent cytolytic killing of BCMA-expressing cells. Because of the potential similarity with the BCMA antigen and other actions, we believe that the mechanism of action for ciltacabtagene autoleucel may be the same or similar to that of idecabtagene vicleucel.

We believe that ciltacabtagene autoleucel may not treat the same or similar patient population as currently existing treatments. However, we believe that ciltacabtagene autoleucel and idecabtagene vicleucel may treat the same or similar disease (RRMM) in the same or similar patient population (patients who have previously received a proteasome inhibitor (PI), and immunomodulatory agent (IMID) and an anti-CD38 antibody). Accordingly, as it appears that ciltacabtagene autoleucel and idecabtagene vicleucel are purposed to achieve the same therapeutic outcome using the same or similar mechanism of action and would be assigned to the same MS–DRG, we believe that these technologies may be substantially similar to each other such that they should be considered as a single application for purposes of new technology add-on payments. We are interested in information on how these two technologies may differ from each other with respect to the substantial similarity criteria and newness criterion, to inform our analysis of whether idecabtagene vicleucel and ciltacabtagene autoleucel are substantially similar to each other and therefore should be considered as a single application for purposes of new technology add-on payments.

We are inviting public comment on whether ciltacabtagene autoleucel meets the newness criterion, including whether ciltacabtagene autoleucel is substantially similar to idecabtagene vicleucel and whether these technologies should be evaluated as a single technology for purposes of new technology add-on payments.

### TABLE 1: CURRENTLY AVAILABLE TREATMENT OPTIONS FOR MULTIPLE MYELOMA AND DESCRIBED MECHANISM OF ACTION

<table>
<thead>
<tr>
<th>Treatment Class</th>
<th>Mechanism of Action</th>
</tr>
</thead>
</table>
| Proteasome Inhibitors (PI) | • Interferes with the degradation of proteins within the cells  
| | • Myeloma cells are sensitive to this inhibition |
| Immunomodulatory drugs | • Possess multiple antimyeloma properties including immune modulation, antiangiogenic, anti-inflammatory, and antiproliferative effects |
| Monoclonal antibodies (MABS) | • Target specific proteins on myeloma cells, which may activate immune responses |
| Antibody-drug Conjugates | • Antibody that specifically recognizes the BCMA protein — a protein found on the surface of myeloma cells |
| Histone Deacetylase Inhibitors (HDACIDS) | • Can cause apoptosis of myeloma cells through effects on gene regulation |
| Corticosteroids | • Can cause apoptosis of myeloma cells |
| Conventional chemotherapy | • An approach that targets dividing cells |
| Selective Inhibitor of Nuclear export (SINES) | • Inhibits exportin-1 (XPO) resulting in activation of tumor suppressor proteins, glucocorticoid receptors, and immune response regulators thereby inducing cell cycle arrest and apoptosis |

---

With regard to the cost criterion, the applicant searched the FY 2019 MedPAR correction notice (December 1, 2020) file to identify potential cases representing patients who may be eligible for treatment using ciltacabtagene autoleucel. In its analysis, the applicant identified a primary cohort to assess whether this therapy met the cost criterion. The following ICD–10–CM diagnosis codes were used to identify claims involving multiple myeloma procedures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>C90.0</td>
<td>Multiple myeloma</td>
</tr>
<tr>
<td>C90.00</td>
<td>Multiple myeloma not having achieved remission</td>
</tr>
<tr>
<td>C90.01</td>
<td>Multiple myeloma in remission</td>
</tr>
<tr>
<td>C90.02</td>
<td>Multiple myeloma in relapse</td>
</tr>
</tbody>
</table>

The applicant chose to limit its analysis to MS–DRG 016 (Autologous Bone Marrow Transplant W CC/MCC or T-Cell Immunotherapy) because patients receiving autologous bone marrow transplant (BMT) are generally patients with relapsed or refractory multiple myeloma and are most similar to patients who would be eligible to receive CAR T-cell therapy. The claim search conducted by the applicant resulted in 1,215 claims mapped to MS–DRG 016 using the FY 2019 MedPAR. The applicant determined an average unstandardized case weighted charge per case of $1,237,393. The applicant used the New Technology Threshold for FY 2022 from the FY 2021 IPPS/LTCH PPS final rule for MS–DRG 018. The applicant removed all charges in the drug cost center for the prior technology because, according to the applicant, it is not possible to differentiate between different drugs on inpatient claims. The applicant added that this is likely an overestimate of the charges that would be replaced by the use of ciltacabtagene autoleucel. The applicant then standardized the charges using the FY 2019 final rule impact file. Next, the applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges (1.13218). To calculate the charges for the new technology, the applicant used the inverse of a simulated alternative cost-to-charge ratio (CCR) specifically for CAR T-cell therapies to account for CAR T-cell therapies’ higher costs compared to other drugs and the potential for hospitals’ charging practices to differ for these drugs. To determine this alternative CCR for CAR T-cell therapies, the applicant referred to the FY 2021 IPPS final rule AOR/BOR file and calculated an alternative markup percentage by dividing the AOR drug charges within MS–DRG 018 by the number of cases to determine a per case drug charge. The applicant then divided the drug charges per case by $373,000, the acquisition cost of YESCARTA and KYMRIAH, the CAR T-cell products used in those claims, to arrive at a CCR of 0.295. The applicant calculated a final inflated average case-weighted standardized charge per case of $1,646,522, which it stated exceeded the average case-weighted threshold amount of $1,251,126. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

As noted in previous discussions, the submitted costs for CAR T-cell therapies vary widely due to differences in provider billing and charging practices for this therapy. Therefore, with regard to the use of this data for purposes of calculating a CAR T-cell CCR, we are uncertain how representative this data is for use in the applicant’s cost analyses given this potential for variability.

We continue to be interested in public comments regarding the eligibility of CAR T-cell technologies for new technology add-on payments when assigned to MS–DRG 018. As we have noted in prior rulemaking with regard to the CAR T-cell therapies (83 FR 41172 and 65 FR 58603 through 58608), if a new MS–DRG were to be created, then consistent with section 1886(d)(5)(K)(ix) of the Act, there may no longer be a need for a new technology add-on payment under section 1886(d)(5)(K)(ix)(III) of the Act.

We invite public comment on whether ciltacabtagene autoleucel meets the cost criterion.

With regard to the substantial clinical improvement criterion, the applicant asserted that it believes that ciltacabtagene autoleucel represents a substantial clinical improvement over existing technologies because it: (1) Offers a treatment for a patient population with limited options and continued disease progression, despite having been treated with multiple prior therapies; and (2) provides a significantly improved clinical outcome relative to other therapies, either approved or still under FDA review, used in the relapsed and refractory multiple myeloma setting. With regard to the applicant’s assertion that ciltacabtagene autoleucel offers a treatment for a patient population with limited options and continued disease progression, despite having been treated with multiple prior therapies, the applicant cited results from the CARTITUDE–1 STUDY, a Phase 1b/2, open-label, multicenter, multi-national (including US) study to evaluate the safety and efficacy of ciltacabtagene autoleucel in adult patients who have RRMM who have previously received a PI, an IMiD, and an anti-CD38 antibody. The applicant asserts that ciltacabtagene autoleucel was granted Breakthrough Therapy designation for patients who have RRMM who have previously received a PI, an IMiD, and an anti-CD38 antibody, based on data from the Phase1b/2 CARTITUDE–1 study. One hundred thirteen patients were enrolled in the study. Sixteen patients discontinued the study, including 9 patients who died due to progressive disease. Ninety-seven patients received ciltacabtagene autoleucel. The Phase 1b portion of the study included 29 of the 97 patients.

Two patients died during the study: one due to CRS and one due to acute myeloid leukemia (not treatment-related). Twenty-four of the remaining patients were ongoing in the Phase 1b dose confirmation period, with an additional 59 patients ongoing in the Phase 2 portion. The primary objective of the Phase 1b portion of the trial was to confirm the safety of the selected dose based on the data from the ongoing Phase 1 trial in China (Legend–2), as discussed later in this section. The primary objective of the Phase 2 portion of the trial is to evaluate the efficacy of ciltacabtagene autoleucel.

The applicant asserts that at median follow-up of 12.4 months, ciltacabtagene autoleucel led to a 97% overall response rate (ORR) in all 97 study patients who...
received ciltacabtagene autoleucel. The applicant asserts that this unprecedented overall response rate of (97%), represents early, deep, and durable responses in all patients, minimal residual disease negativity (meaning minimal residual cancer cells after treatment to the -n-th degree) in the majority of patients who achieved a complete response (CR) and a very manageable toxicity profile. The applicant provided a comparison of the ORR in phase 1 studies for other therapies used to treat RRMM and noted the following: idecabtagene vicleucel ORR 73%, daratumumab ORR 31%, Solnexor ORR 26% and Blenrep ORR 31%.

The applicant further asserts that ciltacabtagene autoleucel led to early and deep clinical responses in the phase 1b/2 portion of the CARTITUDE-1 study at median follow up of 12.4 months. Results of CARTITUDE-1 showed a 97% overall response rate (ORR) with 67% of patients attaining a stringent complete response (sCR) and 93% of patients attaining a very good partial response (VGPR) or better after receiving a low dose (median of 0.72 million CAR T-cells per kilogram) of ciltacabtagene autoleucel within approximately a year. ORR and depth of response were independent of BCMA expression on myeloma cells at baseline. The median time to first response was one month (range, 0.9–8.5).

The applicant also asserted that most patients attained a status of minimal residual disease (MRD)-negativity by the time they were evaluable for a complete response (CR). Of evaluable patients, 93.0% achieved MRD \(10^{-5}\) negativity. Fifty-eight percent of patients were both MRD negative and in sCR at MRD detection level of \(10^{-5}\). Median time to MRD \(10^{-5}\) negativity: 1 month (0.8–7.7). Among patients with 6 months individual follow-up, most had ciltacabtagene autoleucel CAR+ T-cells below the level of quantification (2 cells/µL) in peripheral blood.

In addition, progression-free survival (PFS) at 12 months was 77% (95% CI; 66.0–84.37). The applicant believes this represents a substantial clinical improvement when compared to existing technologies that treat RRMM. The applicant further asserts that nearly all of the individuals participating in the study (22 of the 29 patients) were alive and continued showing no signs of disease progression after a period of 9 months. Median PFS was not reached. At median follow-up of 12.4 months, there were 14 deaths during the Phase 1b/2 study: One due to cytokine release syndrome (CRS) and hemophagocytic lymphohistiocytosis (HLH), one due to neurotoxicity, and 12 due to other causes. The applicant asserts that the CRS was manageable in most patients. CRS was the most common adverse event (AE) (94.8%) observed in the CARTITUDE-1 study. The median time to onset of CRS was 7 days (range, 1–12) days post ciltacabtagene autoleucel infusion. The median duration of CRS was 4 days. Eighty-seven patients (94.6%) experienced Grade 1–2 CRS and 5 patients (5% experienced grade 3 or above toxicity).

The applicant noted that neurotoxicity with immune effector cell-associated neurotoxicity syndrome (ICANS) was infrequently observed in the context of CRS and was generally low grade. Neurotoxicity with ICANS was observed in 20 patients (20.6%) including 10 patients (10.3%) with Grade 3 or above toxicity. The LEGEND–2 study is an ongoing Phase 1, single-arm, open-label, multicenter, first-in-human trial to determine the safety and efficacy of ciltacabtagene autoleucel (LCAR-B38M in China) in the treatment of patients with relapsed or refractory multiple myeloma. Enrollment in this investigator-initiated study (study proposed, initiated, and conducted by an investigator that is funded by industry) completed in November 2017; a total of 74 patients with RRMM have been treated with ciltacabtagene autoleucel CAR T-cell therapy. The clinical cutoff for the analysis of these 74 patients was Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Proposed Rules


therapies. We also note that the applicant chose to use ORR data as a measure of substantial clinical improvement rather than the available, and more clinically relevant, OS data.

We are inviting public comment on whether ciltacabtagene autoleucel meets the substantial clinical improvement criterion for ciltacabtagene autoleucel.

e. COSELA (trilaciclib)

G1 Therapeutics submitted an application for new technology add-on payments for Trilaciclib for FY 2022. COSELA (trilaciclib) is indicated to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for extensive-stage small-cell lung cancer (ES–SCLC).130

According to the applicant, Trilaciclib is a first-in-class myelopreservation therapy that has the potential to mitigate chemotherapy-induced myelosuppression (CIM). Trilaciclib is a selective, transient inhibitor of cyclin dependent kinases 4 and 6 (CDK4/6) with potential antineoplastic and chemoprotective activities. CDK4 and CDK6 are key regulators of the G1 cell-cycle checkpoint and play important roles in cell proliferation and associated biological processes. One of the most common pathways dysregulated in cancer is the cyclin D–cyclin-dependent kinase four or six (CDK4/6)–retinoblastoma (RB) pathway. Trilaciclib arrests hematopoietic stem and progenitor (HSPCs) bone marrow cells in the G1 phase of the cell cycle during chemotherapy exposure, protecting them from chemotherapy-induced damage.

According to the applicant, the defining characteristic of cancer is uncontrolled cellular proliferation, a phenomenon that requires tumor cells to avoid or disable normal, physiologic cell-cycle regulation. While there are both CDK 4/6 independent and dependent cells, HSPCs and immune cells are CDK 4/6 dependent whereas SCLC cells are CDK 4/6 independent. According to the applicant, the transient arrest of HSPCs and lymphocytes by trilaciclib during the administration of chemotherapy is thought to have a number of beneficial effects, including a reduction in chemotherapy-induced myelosuppression and preservation of immune function, as well as an enhanced immune response.131 132 133

Specifically, SCLC cells replicate independently of CDK 4/6 and therefore these cells are damaged by chemotherapy. Because HSPCs and lymphocytes are CDK 4/6 dependent, trilaciclib’s mechanism of action is believed to preserve these cells by temporarily arresting their proliferation during chemotherapy. In this way, trilaciclib reduces chemotherapy-induced myelosuppression in patients with extensive-stage small-cell lung cancer (ES–SCLC).134 The applicant also asserted that in preclinical models, CDK4/6 inhibition by trilaciclib also alters the tumor immune microenvironment through transient inhibition of the immune cells known as lymphocytes that are also dependent on CDK4/6 activity for proliferation.135

According to the applicant, chemotherapy remains the cornerstone of treatment for extensive stage small cell lung cancer (ES–SCLC). The applicant asserted that almost all of the 18,600 ES–SCLC patients diagnosed each year are treated with platinum/etoposide-containing or topotecan-containing chemotherapy. In this way, arret of HSPCs and lymphocytes by chemotherapy is thought to have a chemotherapy-induced myelosuppression in patients with extensive-stage small-cell lung cancer (ES–SCLC).136 The applicant also noted that granulocyte colony-stimulating factors (G–CSFs) only address neutropenia, while erythropoiesis stimulating agent (ESAs) and red blood cell (RBC) transfusions only address anemia, and there is no available treatment that broadly mitigates myelosuppressive effects and their corresponding impact on patient well-being before chemotherapy damage occurs.

COSELA (trilaciclib) received FDA’s New Drug Application approval on February 12, 2021. COSELA is for intravenous use only. The recommended dose of COSELA is 240 mg/m2 as a 30-minute intravenous infusion completed within four hours prior to the start of chemotherapy on each day chemotherapy is administered.136 The applicant also stated that in 2019, trilaciclib was granted Breakthrough Therapy Designation for the mitigation of clinically significant chemotherapy-induced myelosuppression in adult patients with SCLC. The applicant submitted a request for a new ICD–10–PCS code as the applicant states that there are no existing ICD–10–PCS codes that uniquely identify the administration of trilaciclib.

As previously discussed, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and, therefore, would not be considered “new” for purposes of new technology add-on payments.

With respect to the first criterion, whether a product uses the same or a similar mechanism of action to achieve a therapeutic outcome, the applicant asserted that trilaciclib, also referred to as G1T28, has a unique mechanism of action as a small molecule, competitive inhibitor of CDK4/6, with potential antineoplastic and chemoprotective activities. The applicant stated that upon administration, trilaciclib binds to and inhibits the activity of CDK4/6, thereby blocking the phosphorylation of
the retinoblastoma protein (Rb) in early G1. This prevents G1/S phase transition, causing cell cycle arrest in the G1 phase and induced apoptosis, which inhibits the proliferation of CDK4/6-overexpressing tumor cells. In patients with CDK4/6-independent tumor cells, G1T28 may protect against multi-lineage chemotherapy-induced myelosuppression (CIM) by transiently and reversibly inducing G1 cell cycle arrest in hematopoietic stem and progenitor cells (HSPCs) and preventing transition to the S phase. Per the applicant, this protects all hematopoietic lineages, including red blood cells, platelets, neutrophils and lymphocytes, from the DNA-damaging effects of certain chemotherapeutics and preserves the function of the bone marrow and the immune system.

The applicant stated that the cell cycle consists of four distinct phases, Gap 1 phase (G1), S phase, Gap 2 (G2) post-synthesis phase, and the M (mitosis) phase. Regulation of this process is maintained by a series of highly conserved proteins referred to as cyclins, and their catalytic binding partners, CDKs. The CDKs are a family of enzymes that control several cellular processes in mammalian cells, including the modulation of the cell cycle via binding to cyclins A–E, which results in the activation of transcription factors that regulate the cellular transition from G1 (growth phase) to S (DNA replication) and G2 (growth phase) to M (mitosis).

According to the applicant, the G1-to-S checkpoint is a critical restriction point in the process of cell division. Cells are maintained in a quiescent state until the proper signal is achieved for reentry into the cell cycle. Throughout

G1, expression of the D-type cyclins (D1, D2, D3) increases until active complexes with CDK4/6 are formed. Active CDK4/6 complexes partially phosphorylate RB, which allows partial depression of the transcription factor E2F. This induces additional transcript production of cyclin E1, which binds CDK2 to form active complexes that result in the hyperphosphorylation of RB and drives the cells through late G1 into S phase. Inhibition of cyclin D–CDK4/6 by the tumor suppressor CDKN2A leads to a G1 arrest and cell-cycle progression is halted.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant asserted that trilaciclib will be assigned the same MS–DRG as existing technologies. The applicant did not explicitly state to which MS–DRG(s) trilaciclib would be assigned, but included MS–DRGs 180 (Respiratory Neoplasms with MCC), 181 (Respiratory Neoplasms with CC), and 182 (Respiratory Neoplasms without CC/MCC) in its cost analysis.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population when compared to an existing technology, the applicant stated that trilaciclib is the only proactive (preventive) multilineage (erythrocytes, leukocytes, and thrombocytes, neutrophils and lymphocytes) therapy given as a 30-minute infusion administered prior to chemotherapy on each day of chemotherapy. Due to its mechanism of action, trilaciclib’s benefit is coupled to its administration schedule (that is, trilaciclib must be administered prior to chemotherapy to ensure G1 arrest of HSPCs when those cells are exposed to cytotoxic chemotherapy). According to the applicant, this therapeutic paradigm contrasts with standard available treatment options and interventions that are administered after chemotherapy to reactively reduce or treat chemotherapy side effects. The applicant asserted that typical supportive care rescue interventions such as growth factors (G–CSFs, ESAs) and red blood cell (RBC) transfusions are used after chemotherapy causes damage to stem cells. Current supportive care therapies are used reactively to treat single cell lineage specific (leukocytes and erythrocytes) complications, such as neutropenia and anemia. Additionally, the applicant indicated that growth factor and RBC transfusion use are known to carry a number of risks and cause complications and adverse events.

We note that the information provided by the applicant in response to whether trilaciclib treats the same or similar type of disease or the same or similar patient population, appears to only speak to the first criterion and whether trilaciclib has a mechanism of action that is different than existing technologies; however, we believe trilaciclib appears to treat the same patient population and disease as existing therapies. We are inviting public comments on whether trilaciclib is substantially similar to an existing technology and whether it meets the newness criterion.

With respect to the cost criterion, the applicant conducted the following analysis to demonstrate that trilaciclib meets the cost criterion. In identifying the cost of trilaciclib, the applicant stated that dosing is based on body surface area, 240 mg/m² with an average of two vials (300mg each) per patient per dose. To identify cases that may be eligible for the use of trilaciclib, the applicant searched the FY 2019 MedPAR LDS file for claims reporting an ICD–10–PCS code of category C34 through C34.92 (Malignant neoplasm related to the bronchus, lobe, or lung) as noted in the following table.

---


According to the applicant, based on the advice of clinical experts, it limited case selection criteria to claims that included one of MS–DRGs 180, 181, or 182. The applicant then randomly selected 15% of the claims from the sample to account for the fact that SCLC comprises 15% of lung cancer cases.\textsuperscript{141}


Based on the FY 2019 MedPAR LDS file, the applicant identified 3,500 cases. The applicant noted that 2,346 cases mapped to MS–DRG 180; 1,085 cases mapped to MS–DRG 181.

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>C34</td>
<td>Malignant neoplasm of bronchus and lung</td>
</tr>
<tr>
<td>C34.0</td>
<td>Malignant neoplasm of main bronchus</td>
</tr>
<tr>
<td>C34.00</td>
<td>Malignant neoplasm of unspecified main bronchus</td>
</tr>
<tr>
<td>C34.01</td>
<td>Malignant neoplasm of right main bronchus</td>
</tr>
<tr>
<td>C34.02</td>
<td>Malignant neoplasm of left main bronchus</td>
</tr>
<tr>
<td>C34.1</td>
<td>Malignant neoplasm of upper lobe, bronchus or lung</td>
</tr>
<tr>
<td>C34.10</td>
<td>Malignant neoplasm of upper lobe, unspecified bronchus or lung</td>
</tr>
<tr>
<td>C34.11</td>
<td>Malignant neoplasm of upper lobe, right bronchus or lung</td>
</tr>
<tr>
<td>C34.12</td>
<td>Malignant neoplasm of upper lobe, left bronchus or lung</td>
</tr>
<tr>
<td>C34.2</td>
<td>Malignant neoplasm of middle lobe, bronchus or lung</td>
</tr>
<tr>
<td>C34.3</td>
<td>Malignant neoplasm of lower lobe, bronchus or lung</td>
</tr>
<tr>
<td>C34.30</td>
<td>Malignant neoplasm of lower lobe, unspecified bronchus or lung</td>
</tr>
<tr>
<td>C34.31</td>
<td>Malignant neoplasm of lower lobe, right bronchus or lung</td>
</tr>
<tr>
<td>C34.32</td>
<td>Malignant neoplasm of lower lobe, left bronchus or lung</td>
</tr>
<tr>
<td>C34.8</td>
<td>Malignant neoplasm of overlapping sites of bronchus and lung</td>
</tr>
<tr>
<td>C34.80</td>
<td>Malignant neoplasm of overlapping sites of unspecified bronchus and lung</td>
</tr>
<tr>
<td>C34.81</td>
<td>Malignant neoplasm of overlapping sites of right bronchus and lung</td>
</tr>
<tr>
<td>C34.82</td>
<td>Malignant neoplasm of overlapping sites of left bronchus and lung</td>
</tr>
<tr>
<td>C34.9</td>
<td>Malignant neoplasm of unspecified part of bronchus or lung</td>
</tr>
<tr>
<td>C34.90</td>
<td>Malignant neoplasm of unspecified part of unspecified bronchus or lung</td>
</tr>
<tr>
<td>C34.91</td>
<td>Malignant neoplasm of unspecified part of right bronchus or lung</td>
</tr>
<tr>
<td>C34.92</td>
<td>Malignant neoplasm of unspecified part of left bronchus or lung</td>
</tr>
</tbody>
</table>
mapped to MS–DRG 181; and 69 cases mapped to MS–DRG 182. Using these 3,500 cases, the applicant then calculated the unstandardized average charges per case for each MS–DRG. Because the use of trilaciclib results in approximately half of patients no longer needing drugs used to counter the effects of chemotherapy during the inpatient stay, the applicant removed 50% of the drug charges for the technology being replaced.

The applicant then standardized the charges using the 2019 IPPS/LTCH PPS final rule impact file and inflated the charges by 1.13218 or 13.2 percent, the same inflation factor used by CMS to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule. The applicant then added the charges for trilaciclib by converting the costs to a charge by dividing the cost by the national average cost-to-charge ratio of 0.187 for pharmacy from the FY 2021 IPPS/LTCH PPS final rule. Using these 3,500 cases, the applicant presented eight claims for the cost criterion, the applicant asserted that trilaciclib represents a substantial clinical improvement over existing technologies because it offers a treatment option for patients unresponsive to or ineligible for currently available treatments and improves clinical outcomes for a patient population as compared to currently available treatments. The applicant stated that chemotherapy-induced myelosuppression (CIM) is typically managed with rescue interventions including hematopoietic growth factors (G–CSFs and ESAs) and by RBC and platelet transfusions. Per the applicant, despite the availability and use of these treatment options, CIM continues to be of clinical significance and remains a central concern in the delivery of chemotherapy. The applicant further stated that myelosuppression results in dose reductions, dose delays, and/or dose discontinuations, affecting the dose intensity and intended antitumor efficacy of chemotherapy. Per the applicant, the supportive care interventions for treatment of myelosuppression are suboptimal and are often administered reactively, do not protect the bone marrow from chemotherapy-induced cytotoxic effects, are specific to single hematopoietic lineages, and impart their own risks for adverse reactions. The applicant concluded by stating that new approaches that proactively prevent chemotherapy-induced damage and its associated consequences, whilst not decreasing the efficacy of chemotherapy, are urgently needed to improve care of patients with ES–SCLC.

In regard to the claim that the use of trilaciclib significantly improves clinical outcomes for a patient population as compared to currently available treatments, the applicant stated that the administration of trilaciclib prior to chemotherapy in patients with SCLC prevented chemotherapy-induced neutropenia, reduced chemotherapy-induced anemia, reduced CIM or sepsis-related hospitalizations, and has the potential to improve the management and quality of life of patients receiving myelosuppressive chemotherapy as compared to placebo.

The applicant submitted three sources in support of the assertion that trilaciclib represents substantial clinical improvement over existing technologies in the mitigation of clinically significant chemotherapy-induced myelosuppression in adult patients with SCLC.

In its first and second claims, the applicant asserted that trilaciclib reduces the mean duration of severe G4 neutropenia in cycle 1 of chemotherapy and reduces the proportion of patients experiencing severe G4 neutropenia in comparison to placebo. The applicant submitted three sources in support of these claims. First, the applicant submitted a poster presentation from Daniel, et. al., describing a global, randomized, double-blind, placebo-controlled, multicenter, phase 2 study that assessed the potential of trilaciclib to reduce the incidence and consequences of chemotherapy-induced myelosuppression in patients with newly diagnosed ES–SCLC treated with etoposide, carboplatin, and atezolizumab. One hundred seven eligible patients were randomized to


receive trilaciclib (n = 53) or placebo (n = 54). The primary endpoints were mean duration of severe neutropenia (SN) in cycle 1 and percent of patients with grade 4 SN. Results summarized mean duration of SN in cycle 1 as 0 days with trilaciclib and 4 days with placebo, and percent of patients with grade 4 SN as 1.9% vs 49.1%, respectively.\textsuperscript{151}

Second, the applicant submitted an article by Weiss, et al., summarizing a phase II randomized, double-blind placebo-controlled study of the safety, efficacy and pharmacokinetics (PK) of trilaciclib in combination with etoposide/carboplatin (E/P) therapy for treatment-naive extensive-stage small-cell lung cancer patients. Thirty-nine patients were included in the trilaciclib group versus 38 in the placebo group. The applicant stated that treatment with trilaciclib resulted in a reduced mean duration of severe G4 neutropenia in cycle 1 (0 days versus 3 days in placebo) and reduced proportion of patients experiencing severe G4 neutropenia for trilaciclib (5% versus 43%).\textsuperscript{152}

Third, the applicant submitted a presentation from Hart, et al., describing a randomized, double-blind, placebo-controlled, phase 2 study to compare the results of 32 patients receiving Trilaciclib versus 28 receiving placebo in patients being treated with topotecan for previously treated ES–SCLC. Primary endpoints were mean duration of SN in cycle 1 and the percentage of patients with SN. Results demonstrated that the mean duration of severe G4 neutropenia in cycle 1 was reported at 2 days for trilaciclib versus eight days for placebo. The proportion of patients experiencing severe G4 neutropenia was reported at 41% for trilaciclib versus 78% for placebo.\textsuperscript{153}

In the third claim, the applicant asserted that trilaciclib reduces the proportion of patients experiencing febrile neutropenia treatment emergent adverse events (TEAE) in comparison to placebo. In the fourth claim, the applicant asserted that trilaciclib decreases the rate of therapeutic intervention with G–CSF in comparison to placebo, noting that growth factors are known to carry a number of risks, cause complications and adverse events. In the fifth claim, the applicant asserted that trilaciclib reduces the proportion of patients experiencing grade 3/4 anemia in comparison to placebo. In the sixth claim, the applicant asserted that trilaciclib decreases the rate of therapeutic intervention with red blood cell transfusions in comparison to placebo. To support these claims, the applicant submitted a 2020 poster presentation from Weiss, et al., describing a pooled analysis across three RCTs that compared the proportion of ES–SCLC patients experiencing febrile neutropenia between trilaciclib and placebo. The trilaciclib group included 122 patients and the placebo group included 118 patients. The presentation reflected the following results: The proportion of patients experiencing febrile neutropenia for trilaciclib was 3% versus placebo at 9%; the rate of therapeutic intervention with G-CSF for trilaciclib at 29% versus 56% for placebo; the proportion of patients experiencing grade 3/4 anemia for trilaciclib at 20% versus 32% for placebo; and the rate of therapeutic intervention with red blood cell transfusions for trilaciclib at 15% versus 26% for placebo.\textsuperscript{154}

In the seventh claim, the applicant asserted that trilaciclib delays time to deterioration in symptoms and functioning domains of patient-reported quality of life measures on Functional Assessment of Cancer Therapy (FACT) scores. The applicant submitted a 2019 presentation from Weiss, et al., describing a pooled analysis across three RCTs. The applicant stated that trilaciclib delays time to confirmed deterioration in a variety of symptoms and functioning domains compared to placebo, for example: median of 4.7 months delay to deterioration for fatigue; median of 3.5 months delay for anemia; and median of 4 months delay for functional well-being.\textsuperscript{155}

In the eighth claim, the applicant asserted that trilaciclib decreases the number of hospitalizations due to myelosuppression or sepsis. The applicant submitted a conference agenda referring to an oral presentation by Ferrarotto, et al., at the North America Conference on Lung Cancer, October 16, 2020. The applicant stated that hospitalizations due to myelosuppression or sepsis occurred in significantly fewer patients and significantly less often among patients receiving trilaciclib prior to chemotherapy versus placebo. The applicant noted that hospitalizations were much lower than the typical cutoff of 0.05 and may have increased the risk of false positives and interfered with the ability to draw conclusions that are based on statistical methods. We also note the lack of any statistical correction for multiple comparisons. We note that


\textsuperscript{155} Hart LL, Andric ZG, Hussein MA et al. Effect of trilaciclib, a CDK4/6 Inhibitor, on Myelosuppression in Patients with Previously Treated Extensive-Stage Small Cell Lung Cancer [Oral Presentation]. Presented at: American Society of Clinical Oncology (ASCO). June 2019; Chicago, US.


in sources provided by the applicant, mean duration of severe neutropenia was assessed in day increments. However, it is not clear that zero days would indicate that those patients experienced no severe neutropenia. Specifically, we question whether mean hours in severe neutropenia was evaluated or whether, in addition to the groupings by days, one day or less would be an appropriate value for inclusion. Finally, while the applicant referred to decreases in the number of hospitalizations, we note that the source provided was limited to a conference agenda that only linked to an abstract pertaining to reductions in utilization of supportive care interventions but did not reflect hospitalization rates.

We invite public comments as to whether trilaciclib meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for trilaciclib.

f. Ellipsys® Vascular Access System

Avenu Medical, Inc. submitted an application for new technology add-on payments for the Ellipsys® Vascular Access System ("Ellipsys") for FY 2022. Ellipsys is a device that enables percutaneous creation of an arteriovenous fistula (AVF), which is used to access the bloodstream for hemodialysis for the treatment of end-stage renal disease (ESRD). According to the applicant, to create the fistula, a physician inserts a crossing needle through the perforating vein and into the proximal radial artery in the forearm. A specialized catheter is then used to bring the artery and vein together. The two vessels are “welded” together with thermal resistance energy, creating an anastomosis. According to the applicant, the only means of creating an AVF was through open surgery before the approval of Ellipsys, and percutaneous AVF (pAVF) offers a number of advantages over surgical AVF (sAVF).

With respect to the newness criterion, the applicant for Ellipsys received 510(k) clearance from the FDA on August 9, 2019, with an indication for the creation of a proximal radial artery to perforating vein anastomosis via a retrograde venous access approach in patients with a minimum vessel diameter of 2.0mm and less than 1.5mm of separation between the artery and vein at the fistula creation site who have chronic kidney disease requiring dialysis. The subject of this 510(k) clearance was an update to the Instructions for Use (IFU) to allow an additional procedural step for balloon dilation of the anastomosis junction at the radial artery and adjacent outflow vein of the AVF immediately after creation with the Ellipsys catheter. Per the applicant, the device was immediately available on the market. The applicant further stated that the device was originally approved under a De Novo clearance on June 22, 2018. Ellipsys also received two additional 510(k) clearances dated January 25, 2019 (minor change in the packaging of components) and October 5, 2018 (minor technological differences in the power control unit and minor enhancements to the catheter design) but the applicant states they are not regarded as material for this application. The FDA has classified Ellipsys as a Class II device under the generic name percutaneous catheter for creation of an arteriovenous fistula for hemodialysis.

With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant asserted that Ellipsys uses a new mechanism of action compared to its initial clearance. Per the applicant, the current device included an additional step in the IFU, creating a different procedure profile and a different mechanism of action. The applicant states that the addition of this step, a balloon angioplasty performed within the same operative session as the creation of the pAVF, instead of days or weeks later, typically contributes to decreased time to maturation, improved initial flow, and helps avoid early thrombosis of the newly-created access, in addition to decreasing the number of secondary procedures required for maturation and maintenance. According to the applicant, the explicit inclusion of the step in the IFU, where it was not previously explicitly included, represents a new mechanism of action.

With respect to the second criterion, whether a product is assigned to the same or different MS–DRG, the applicant generally stated that Ellipsys is assigned to the same MS–DRGs as existing technologies. According to information provided by the applicant,
these MS–DRGs appear to be MS–DRGs 264, 356, 357, 358, 628, 629, 630, 673, 674, 675, 907, 908, 909, 981, 982, and 983. With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant generally stated that Ellipsys will be used to treat the same or similar type of disease and the same or similar patient population as the current standard-of-care treatments.

In summary, the applicant believes that Ellipsys is not substantially similar to other currently available therapies and/or technologies because it uses a new mechanism of action and that therefore, the technology meets the “newness” criterion. However, we believe that the mechanism of action for Ellipsys may be the same or similar to the original version of the Ellipsys system, which received FDA approval on June 22, 2018. Though the current IFU includes an additional procedure as part of the index procedure, it is not clear that this step of balloon angioplasty done concurrently changes the mechanism of action of the Ellipsys system. Per the FDA’s 510(k) summary, compared to the predicate device, there were no changes to the device or the system. Per the FDA’s 510(k) summary, the mechanism of action of this device. We note that if the current device is substantially similar to the original version of Ellipsys, we believe the newness period for this technology would begin on June 22, 2018 with the De Novo approval date and, therefore, because the 3-year anniversary date of the technology’s entry onto the U.S. market (June 22, 2021) would occur in FY 2021, the technology would no longer be considered new and would not be eligible for new technology add-on payments for FY 2022. We welcome public comments on whether the change in the Ellipsys IFU represents a change to the device’s mechanism of action.

We also note that differences in mechanism of action between Ellipsys and WavelinQ were not included. We note that CMS stated in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58702) that WavelinQ uses a unique mechanism of action that differed from that of other commercially available devices.

We are inviting public comments on whether Ellipsys is substantially similar to other currently available therapies and/or technologies and whether this technology meets the newness criterion. With regard to the cost criterion, the applicant conducted the following analysis to demonstrate that the technology meets the cost criterion.

The applicant searched the FY 2019 MedPAR claims data file with the FY 2019 IPPS/LTCH PPS final rule correction notice IPPS Impact File to identify potential cases representing patients who may be eligible for treatment using the Ellipsys. The applicant stated that currently, there are two ICD–10–PCS procedure codes that describe percutaneous AVF in the radial artery: 031B3ZF (Bypass right radial artery to lower arm vein, percutaneous approach) and 031C3ZF (Bypass left radial artery to lower arm vein, percutaneous approach). The applicant stated that these codes are not specific to percutaneous AVF formation using thermal energy. We note that the applicant submitted a request for approval for a unique ICD–10–PCS code for the use of the Ellipsys beginning FY 2022. The applicant stated that if the procedure were reported with the previously mentioned procedure codes, Ellipsys would be mapped to the following MS–DRGs:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>264</td>
<td>Other Circulatory System O.R. Procedures</td>
</tr>
<tr>
<td>356</td>
<td>Other Digestive System O.R. Procedures with MCC</td>
</tr>
<tr>
<td>357</td>
<td>Other Digestive System O.R. Procedures with CC</td>
</tr>
<tr>
<td>358</td>
<td>Other Digestive System O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td>628</td>
<td>Other Endocrine, Nutritional and Metabolic O.R. Procedures with MCC</td>
</tr>
<tr>
<td>629</td>
<td>Other Endocrine, Nutritional and Metabolic O.R. Procedures with CC</td>
</tr>
<tr>
<td>630</td>
<td>Other Endocrine, Nutritional and Metabolic O.R. Procedures without CC/MCC</td>
</tr>
<tr>
<td>673</td>
<td>Other Kidney and Urinary Tract Procedures with MCC</td>
</tr>
<tr>
<td>674</td>
<td>Other Kidney and Urinary Tract Procedures with CC</td>
</tr>
<tr>
<td>675</td>
<td>Other Kidney and Urinary Tract Procedures without CC/MCC</td>
</tr>
<tr>
<td>907</td>
<td>Other O.R. Procedures For Injuries with MCC</td>
</tr>
<tr>
<td>908</td>
<td>Other O.R. Procedures For Injuries with CC</td>
</tr>
<tr>
<td>909</td>
<td>Other O.R. Procedures For Injuries without CC/MCC</td>
</tr>
<tr>
<td>981</td>
<td>Extensive O.R. Procedures Unrelated to Principal Diagnosis with MCC</td>
</tr>
<tr>
<td>982</td>
<td>Extensive O.R. Procedures Unrelated to Principal Diagnosis with CC</td>
</tr>
<tr>
<td>983</td>
<td>Extensive O.R. Procedures Unrelated to Principal Diagnosis with CC/MCC</td>
</tr>
</tbody>
</table>

The applicant added that ICD–10 codes 031B3ZF and 031C3ZF were new effective October 1, 2019 and therefore do not appear in the 2019 claims data. According to the applicant, the most common MS–DRGs for patients admitted with chronic kidney disease and who received an open procedure for creation of an AVF are shown below.


---


The applicant has not made a request for Ellipsys to be mapped to a new MS–DRG for FY 2022. The applicant stated that claims which had a diagnosis code for Chronic Kidney Disease (CKD) stage IV, CKD stage V, or ESRD and which included an open bypass of the subclavian artery to upper arm vein or the radial artery to lower arm vein during the same stage were included in the cost analysis. The applicant stated they used the following ICD–10 codes in their analysis to identify claims.

<table>
<thead>
<tr>
<th>Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N18.4</td>
<td>Chronic kidney disease, stage 4</td>
</tr>
<tr>
<td>N18.5</td>
<td>Chronic kidney disease, stage 5</td>
</tr>
<tr>
<td>N18.6</td>
<td>End stage renal disease</td>
</tr>
<tr>
<td>03130ZD</td>
<td>Bypass right subclavian artery to upper arm vein, open approach</td>
</tr>
<tr>
<td>03140ZD</td>
<td>Bypass left subclavian artery to upper arm vein, open approach</td>
</tr>
<tr>
<td>031B0ZF</td>
<td>Bypass right radial artery to lower arm vein, open</td>
</tr>
<tr>
<td>031B3ZF</td>
<td>Bypass right radial artery to lower arm vein, perc</td>
</tr>
<tr>
<td>031C0ZF</td>
<td>Bypass left radial artery to lower arm vein, open</td>
</tr>
<tr>
<td>031C3ZF</td>
<td>Bypass left radial artery to lower arm vein, perc</td>
</tr>
</tbody>
</table>

Cases mapping to the top five MS–DRGs by volume were selected, which resulted in 689 cases or 79% of case volume.

The applicant determined an average unstandardized case weighted charge per case of $91,190.

The applicant did not remove charges for prior technology because the cases identified included an open procedure that is not performed using a specific device. However, the applicant stated that all charges for the operating room (OR) were removed as the procedures involving the technology would not always be performed in an OR. The applicant stated that departmental charges were standardized using the factors from the standardization file released with the FY 2021 final rule. The applicant then standardized the charges using the FY 2019 Final Rule with Correction Notice Impact File. Next, the applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges (1.13218). To calculate the charges for the technology, the applicant used the national average CCR for the Supplies and Equipment cost center of 0.297 from the FY 2021 IPPS/LTCH PPS final rule. The applicant added charges for other items and services related to the technology; half of the average departmental charges for the OR removed in a prior step were added back to the per case charge, by MS–DRG, as procedures using the technology would sometimes be performed in an OR. The applicant calculated a final inflated average case-weighted standardized charge per case of $119,158, which exceeded the average case-weighted threshold amount of $91,190 by $27,967. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

We note that the applicant used claims with open subclavian artery bypass to upper arm vein, in addition to radial lower arm fistulas, as a proxy for Ellipsys cases. The applicant stated that Ellipsys may provide an alternative to these cases in some instances where AVF placement in the radial arteries is possible but the surgeons are unfamiliar with the procedure. However, we question if these are the most appropriate proxy, as Ellipsys should not replace radiocephalic fistulas, per standard guidelines that recommend wrist fistulas first; and it would be more likely that surgeons would use Ellipsys over upper arm fistulas than a subclavian fistula, which is used rarely in standard practice.

We are inviting public comments on whether the Ellipsys® Vascular Access System meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that the Ellipsys® Vascular Access System represents a substantial clinical improvement over existing technologies. Broadly, the applicant outlined three comparators with respect to which it asserted Ellipsys provides a substantial clinical improvement: (1) Percutaneous AVF with the WavelinQ™ (4F) EndoAVF System; (2) percutaneous AVF (pAVF) with the prior version of Ellipsys; and (3) surgical AVF (sAVF).

With respect to the first comparison, Ellipsys as compared to WavelinQ, the applicant stated that Ellipsys has improved outcomes including technical success and cumulative patency. The applicant cited the following to support superiority of Ellipsys over WavelinQ: (1) Higher fraction of cases with clinically functional AVFs; (2) speedier maturation; (3) more durable AVFs; and (4) smaller failure rate. According to the applicant, no head-to-head clinical trial is available, but they provided one retrospective study that provides a direct comparison between the two pAVF systems to support their claims.

Shahverdyan et al. performed a retrospective review of 100 patients undergoing percutaneous fistula creation at a single site in Germany between December 2017 and December 2019 to compare outcomes with pAVF.
creation using the Ellipsys and WavelinQ systems. In this single-operator, comparative case series, 65 Ellipsys procedures and 35 WavelinQ procedures were completed, following a procedure sequence algorithm for selecting the type of vascular access. Per the study, wrist sAVF was the first choice as per standard practice guidelines, followed by proximal forearm pAVF, resulting in 100 pAVFs using Ellipsys (n=65) and WavelinQ (n=35). Demographics for the study patients included 69 percent male and median age of 64.1 years. There were no significant differences between WavelinQ and Ellipsys patients in age, Body Mass Index (BMI), Chronic Kidney Disease (CKD) status, AVF history, or presence of diabetes, though the WavelinQ group had a higher proportion of males. The primary endpoints were technical success, time to maturation, functional patency, and time to first clinical use, and median follow-up was 186.5 days. The study reported technical success, defined as post-procedure ultrasound examination demonstrating a patent anastomosis and fistula flow, with Ellipsys at 100 percent vs. 97 percent with WavelinQ (p=0.35). Interventions were performed in approximately 27 percent of cases for both technologies, and the number of interventions per patient-year was 0.96 vs. 0.46, respectively.

Per the applicant, the study demonstrated a higher fraction of cases with clinically functional AVFs using Ellipsys, as fistula maturation at four weeks was 68.3 percent with Ellipsys vs. 54.3 percent with WavelinQ (p=0.1709), and at the end of the study period, 83.3% and 71.4% respectively. In addition, the applicant stated that successful dialysis access was achieved in 79.5 percent of Ellipsys cases vs. 60.9 percent for WavelinQ cases among patients on dialysis (p=0.0711). The applicant also stated that the study demonstrated that Ellipsys results in speedier maturation with Ellipsys demonstrating a median time to cannulation of 60 days vs. 90 days with WavelinQ (p=0.3676). Next, the applicant stated that use of Ellipsys demonstrated more durable AVFs, with a secondary patency rate (the time from fistula creation to fistula abandonment, including any interventions) at 12 months of 82 percent as compared to 60 percent with WavelinQ, and a functional patency rate of 100% vs. 85.7%, respectively. We note that primary patency (the time from fistula creation to the first intervention) between groups was not significantly different. Lastly, access failure occurred in 15.4 percent of Ellipsys patients vs. 37.1 percent of WavelinQ patients (p=0.0137), which demonstrated that use of Ellipsys results in a smaller failure rate, according to the applicant.

With regard to the second comparison, Ellipsys compared to the previous version of the technology, the applicant states that since the IFU dated 8/9/19 now states that balloon angioplasty should be performed at the time of the creation procedure, they believe that Ellipsys should be considered a different device. Per the applicant, this subtle difference is of key clinical importance to successful use of Ellipsys, as this method decreases the time to two-needle cannulation (2NC) and also improves initial flow, resolving vascular spasm at the time of the procedure and reducing early thrombosis. The applicant further states that performance angioplasty 100 percent of the time also decreases the number of secondary procedures. To support these claims, the applicant compared results from the Ellipsys pivotal trial that used the earlier IFU, in which angioplasty was performed simultaneously on 19% of patients, with the Ellipsys post-market registry that implemented the change and performed the additional step on 100% of patients. Ellipsys’s pivotal trial was a prospective, single-arm, non-inferiority study of 107 patients at five sites to compare Ellipsys with a 90-day performance goal based on a meta-analysis of surgical results from the literature. Inclusion criteria included vascular anatomy specific to the indications for Ellipsys, age between 18 and 80 years old, and CKD stage IV or V. Exclusion criteria included recent surgery or major illness within 6 weeks, acute or active infection, and use of immunosuppressive medication. Of 261 patients evaluated, a total of 117 met inclusion and exclusion criteria, with 28 percent excluded due to unsuitable anatomy. 107 were included in the intent to treat (ITT) population after each study site completed 2 procotored procedures. Demographics included 73 percent male, mean patient age of 56.7 years, and mean BMI of 31.2 percent. All patients in the ITT population received a pAVF with Ellipsys between the proximal radial artery and perforating vein, followed by separate maturation procedures. The primary efficacy endpoint of the study was maturation success, defined as brachial artery flow volume greater than or equal to 500ml/min and target vein diameter greater than or equal to 4mm in more than 49 percent of patients at 90 days. This performance goal was obtained from a meta-analysis of 8 studies of open sAVF, where the weighted least squares mean success rate was 62 percent, and the lower bound from a 2-sided 95 percent lower confidence interval was 49 percent. The primary safety endpoint was the absence of device-related complications at 90 days. Access failure occurred in 4/107, with a technical success rate of 95 percent. The primary endpoint was met by 86 percent at 90 days (the 97.5 percent lower confidence interval was 77.9 percent), exceeding the 49 percent performance goal (p<0.0001). Cumulative patency was 91.6 percent at 90 days and 86.7 percent at 1 year. During the 12-month study, 88 percent of the patients on hemodialysis (71 of 81) had successful 2-needle cannulation, including 63 patients on dialysis at enrollment and 18 who initiated dialysis during the study. The mean time to cannulation was 114.3 days ± 66.2 (34–345 days). Per the authors, spasm of the perforating vein was easily treated with vasodilators and balloon dilation as a matter of routine care. Nineteen percent of patients (20/107) received balloon dilation during the index procedure, and second stage maturation procedures included 113 balloon dilations in 77 patients. A total of 205 maturation procedures were performed on 99 patients at a mean of 35.1 days. An additional 66 maintenance procedures were performed in 35 patients at a mean of 17 days, for a total of 271 secondary procedures during the 12 months of the study (2.7 per patient year).

The Ellipsys post-market registry by Hull et al. was a prospective single-operator study of 60 patients receiving a pAVF with Ellipsys at a single outpatient US site in an attempt to understand patient selection, maturation, and cannulation with pAVFs. Patient demographics included 57 percent male, mean age of 64, and mean BMI of 30.7. 123 patients with ESRD stages IV and V were evaluated by ultrasound to determine suitability for AVF. Ninety-two percent were eligible for sAVF and 61 percent were eligible for open sAVF.


were eligible for pAVF. Of the 95 patients who received an AVF, 63 percent (60) received pAVF and 37 percent (35) received sAVF. All 60 pAVF patients underwent pAVF creation under ultrasound guidance, followed by balloon dilation, as compared to the pivotal trial where only 19 percent had balloon dilation as part of the index procedure. After 4 weeks, maturation and suitability for dialysis were assessed. The fistulas were considered suitable when palpable on examination and the target vein had 500ml/min flow volume and 5mm diameter. Fifty-two additional maturation procedures, including balloon dilation in 62 percent, were performed in 40 of 60 patients to achieve adequate flow volume and diameter in the target vein. Physiologic maturation was achieved in 93 percent (56 of 60 patients) with a mean time of 40.4 days ± 4.3 and of the remaining 4 patients, one thrombosed and three died prior to maturation. In the 54 patients requiring dialysis, 87 percent achieved 2NC at a mean of 76.8 days. Six month cumulative patency and functional patency were both 94 percent. 70 maintenance procedures were performed in 63 percent. Only 2 patients achieved 2NC without an additional procedure. The authors noted that this study is limited by a modest sample size and single-site study with surgeons experienced in pAVF creation, and that results were not compared to surgery.

According to the applicant, the post-market registry demonstrated the significant clinical differences between performing balloon angioplasty as part of the index procedure 19 percent of the time (as seen in the pivotal trial) compared to 100 percent of the time. The results showed that the average time to 2NC decreased from 100 days to 70 days. The study also compared initial AVF flow between the studies, which increased to 649 ml/min from 330.4 ml/min, attributed to the reduction in instances of venospasm due to balloon dilation.171 According to the study investigators, this decrease in venospasm and higher flow led to a reduction in early thrombosis from 11 percent to 2 percent. Lastly, the applicant compared the number of secondary procedures between the two studies with the following table:

<table>
<thead>
<tr>
<th>Maturation Procedures per Patient</th>
<th>Maintenance Procedures per Patient</th>
<th>Total Secondary Procedures per Patient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pivotal Trial</td>
<td>205/103 = 1.99</td>
<td>66/103 = 0.64</td>
</tr>
<tr>
<td>Maturation Study</td>
<td>52/60 = 0.87</td>
<td>70/60 = 1.17</td>
</tr>
</tbody>
</table>

The applicant provided 2 prospective single-arm studies and 5 retrospective studies, including the studies previously discussed, to support these claims. They also submitted data from one unpublished study. Aside from the Ellipsys pivotal trial, the Ellipsys post-market registry, and the comparison study with WavelinQ already summarized, the remaining studies are summarized below.

The 2-year results of the pivotal trial were analyzed retrospectively by Beathard.172 105 patients with 2 year follow-up data were included, and of these, 103 had functioning fistulas and all were receiving dialysis except 3. Cumulative patency at 18 and 24 months was 92.8 percent and 91.6 percent, respectively. Patient experience with pAVF was assessed among those who had received a previous access procedure (%). When compared to their previous procedure, patients rated Ellipsys as the same in 68 percent, better or much better in 29 percent, and worse in 3 percent. Patients mentioned difficulty with cannulation due to unfamiliarity of dialysis staff with pAVF, but commented on the lack of surgical scar and short recovery time. Among all patients who responded, 93 percent rated their access as very good or excellent.

A retrospective review of 34 patients who received pAVF between May 2017 and November 2018 at a clinic in France was submitted.173 Patients included had ESRD, were not candidates for wrist fistulas, and met the anatomic criteria for use of Ellipsys. Demographics included patients that were 58 percent male, 65 percent Caucasian and 35 percent African, and a mean age of 62 years old. After fistula creation with Ellipsys, all anastomoses received balloon dilation. Twenty-four of 34 patients had successful 2NC within 6 weeks. Forty-four percent of patients did not require secondary interventions, and 12 percent required additional dilation within 4 weeks to improve maturation. Two patients converted to a surgical fistula due to cannulation difficulties. No patients developed steal syndrome or aneurysmal changes in the one year follow-up period. Study authors noted that one benefit of pAVF over sAVF is the potential for multiple outflow cannulation veins, as compared to a sAVF in the same location, where the median cubital vein is ligated to augment flow into a single vessel.

Another study provided was a retrospective cohort study of 232

Per the applicant, despite the higher standard for maturation in the second study (5mm target vein diameter vs 4mm in the pivotal study), the number of maturation procedures decreased, while maintenance procedures increased. Overall, secondary procedures decreased with the new protocol, as described in the table submitted by the applicant.

With respect to the third comparison, Ellipsys as compared to sAVF, the applicant stated that Ellipsys creates a side-to-side fistula with a percutaneous approach while sAVFs for the most part create end-to-side fistulas. According to the applicant, in patients that have suitable anatomy for pAVF creation, this method of fistula creation contributes to improved outcomes in five ways: (1) Higher fraction of cases with clinically functional AVFs; (2) decreased time to two-needle cannulation; (3) more durable AVFs; (4) decreased need for secondary interventions; and (5) patient satisfaction with Ellipsys AVFs. According to the applicant, no head-to-head studies or randomized trials between Ellipsys and sAVFs are available, and instead, results of key variables of interest were compared using studies with comparable results for sAVFs from published literature.


consecutive patients who underwent pAVF creation with Ellipsys at a single center in France. An Ellipsys pAVF was the second choice after a radiocephalic surgical wrist fistula. Patients were 63 percent male, with a mean age of 64 years old (25–92). Balloon angioplasty was considered part of the index procedure and performed in all cases. Technical success was achieved in 99 percent. At 1 year, the primary patency rate was 54 percent and the secondary patency rate was 96 percent with a mean follow up of 252 days. The most frequent intervention (35 percent of patients) was additional balloon angioplasty. Eleven percent of patients underwent procedures for superficialization of deep veins. Average maturation time by clinical or ultrasound criteria was 4 weeks, and successful cannulation was established in less than 2 weeks in 10 percent of patients. No significant adverse events related to the procedures occurred. Three patients (1 percent) required later conversion to sAVF, two due to occlusion of the anastomosis and one due to rupture of the perforator during an angioplasty procedure and pseudoaneurysm. The authors conclude that pAVFs have reduced need for reinterventions and result in a moderate-flow fistula with shared venous drainage. They further state that minimally invasive AVF creation with the low risk of complications seen using Ellipsys can be particularly beneficial in older patients, especially since the lower flow fistula as compared to brachial artery inflow AVFs decreases the risk of AVF failure. They conclude that large-scale randomized studies are needed to confirm their findings.

In another study, a case series of 14 patients who achieved early cannulation with an Ellipsys pAVF underwent retrospective review at an outpatient department in Europe. In these patients, cannulation within 14 days post creation was performed using plastic cannulas in order to avoid catheter insertion or replacement for dialysis. The procedure was successful in all cases. Primary patency at 12 months was 66 percent and cumulative patency was 100 percent, with the authors concluding that this success suggests that pAVF could serve as an alternative to catheter for immediate dialysis.

The applicant also submitted preliminary unpublished results from a 3-year follow up of 99 of the pivotal trial patients, stating that while Ellipsys AVFs required more maturation procedures, in the 2 years following creation they required fewer maintenance procedures as compared to results for sAVF reported in the literature, with an average of 0.83 vs. 3.41, respectively. Additionally, they stated that at every follow-up period, Ellipsys showed improved cumulative patency over sAVF results from the literature, with rates of 90 percent vs 46 percent at 36 months.

The applicant summarized results from all of the studies to support each claim of Ellipsys’s superiority over sAVF by comparing to historical controls in the literature. For the claim of more clinically functional AVFs, the applicant summarized results from 4 studies, demonstrating 2NC in 88 percent at one year and 53 percent at 2 years, 87 percent with an average follow up of 282 days, and 82 percent within 6 weeks. This was compared to a value of 53.4 percent successful cannulation for sAVF from a study that looked at the effect of age over 65 on clinical outcomes for radiocephalic and brachiocephalic AVF. For the claim of decreased time to 2NC, the applicant summarized the results from 5 studies, demonstrating a mean time to 2NC for Ellipsys of 100.2 days, 65.5 ± 45.7 days, a range of 10 days to 6 weeks, 4 weeks, and 60 days, 181 182 183 184 185. This was compared to a mean of 136 days for sAVFs, taken from the United States Renal Data System. For the claim of more durable AVFs, the applicant summarized results from 5 studies demonstrating Ellipsys’s cumulative patency at 12 months, ranging from 82 percent to 100 percent, and 91.6 percent at 24 months. The applicant compared these results to a patency rate of 65 percent for sAVFs found in the USRDS database. The applicant further stated that preliminary results from the pivotal trial 3 year follow-up, were an average of 0.83 maintenance inventions per patient in the 2 years following creation, and that the cumulative patency using Ellipsys was 90 percent at 36 months, compared to a historical value of 46 percent for sAVFs. For the claim of decreased secondary interventions (including maturation and maintenance procedures), the applicant summarized outcomes from 3 studies demonstrating 0.96 secondary interventions per patient in the 2 years following creation in the preliminary results of the 3 year follow-up by Hull et al. The applicant stated that a comparable value for sAVFs is created using the Ellipsys® vascular access system. Hemodialysis International 2019; 23(2); 168–172. Mallios A, Bourquepol F, Franco G, et al., “Mid-term results of percutaneous arteriovenous fistula creation with Ellipsys vascular access system, technical recommendations and an algorithm for maintenance,” Journal of Vascular and Interventional Radiology 2020; 31(9): 1365–1372. (Published on-line August 7, 2020.) United States Renal Data System. 2016 USRDS Annual Data Report: Epidemiology of kidney disease in the United States. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, 2016. Beathard GA, et al., “Comparison of Outcomes of Percutaneous Arteriovenous Fistula Creation by Ellipsys and WavelinQ Devices,” Journal of Vascular and Interventional Radiology 2020; 31(9): 1365–1372. (Published on-line August 7, 2020.) Mallios A, Bourquepol F, Franco G, et al., “Mid-term results of percutaneous arteriovenous fistula creation with Ellipsys vascular access system, technical recommendations and an algorithm for maintenance,” Journal of Vascular and Interventional Radiology 2020; 31(9): 1365–1372. (Published on-line August 7, 2020.) Hull JE, Jennings W, et al., “The Pivotal Multicenter Trial of Ultrasound-Guided Percutaneous Arteriovenous Fistula Creation for Hemodialysis Access,” Journal of Vascular and Interventional Radiology 2018; 29: 149–158. Hull JE, Deitrick J, Groome K, “Maturity for Hemodialysis in the Ellipsys® EndoAVF Post- Market Registry,” Journal of Vascular and Interventional Radiology 2020; 31(9): 1373–1381. (Published on-line August 13, 2020.) Hebibi H, et al., “Clinical hemodialysis experience with percutaneous arteriovenous fistulas created using an ultrasound access system,” Hemodialysis International 2019; 23(2): 16–82. Weale A, et al., “Radiocephalic and Brachiocephalic Arteriovenous Fistulae in the Elderly,” Journal of Vascular Surgery 2008; 47(1): 144–150. Mallios et al., “Mid-term results of percutaneous arteriovenous fistula creation with Ellipsys vascular access system, technical recommendations and an algorithm for maintenance,” Journal of Vascular Surgery 2020; 72(6): 2097–2106. (Published on-line April 7, 2020.) Mallios et al., “Early cannulation of percutaneously created arteriovenous hemodialysis fistulae,” Journal of Vascular Access 2020; 21(6): 997–1002. (Published on-line December 19, 2019.) Al-Jaishi, Ahmed A., et al., “Patency rates of the arteriovenous fistula for hemodialysis: a systematic review and meta-analysis,” American Journal of Kidney Diseases (2014) 64(3): 404–47.
3.41 over 2 years. Finally, for the claim of patient satisfaction, the applicant cited results of the patient survey performed by Beathard et al., stating that the survey indicated a high level of satisfaction with Ellipsys, with 93 percent rating their access as very good or excellent, and 95 percent rating their lack of pain as very good or excellent. Additionally, patients noted the lack of scar, short recovery time, and ease of use with Ellipsys.

We note that only one of the studies submitted by the applicant in support of a finding of substantial clinical improvement for Ellipsys has a comparator arm (retrospective comparison), and none were created with a methodology to demonstrate superiority. In addition, some studies may be limited by potential bias due to single operator and/or single site design, and comparisons to sAVF were made using various historical controls from different studies with no statistical analyses, making it difficult to account for confounding variables. We further note that the studies used physiologic endpoints as a surrogate outcome for fistula maturity instead of a clinically functional fistula as determined by successful 2-needle cannulation. Of interest, a number of the studies submitted concluded that there is a further need for head-to-head, larger scale, or longer trials to confirm claims of superiority of pAVF over surgical AVF and other pAVFs. We note that the applicant provided one retrospective study with a small sample size to support the claim of superiority of Ellipsys over WavelinQ. Though this study by Shahverdyan et al. demonstrated numerically better outcomes for multiple endpoints with Ellipsys, we note that outcomes did not reach statistical significance for primary patency, technical success, maturation rates, time to cannulation, or fistula success, and we note the potential for bias with the single operator/single site study design.

We note that the decreased interventions and time to 2NC using Ellipsys were reported from studies performed outside of the US, where practice patterns are different. Per the Hull et al. study, practice in the US is to direct flow into a single upper arm vein to meet established guidelines for fistula flow diameter depth and length, whereas in the European studies, multiple outflow veins were accepted. The authors further state that allowing multiple outflow veins decreases the number of secondary maturation procedures used to direct flow, but requires advanced cannulation techniques, ultrasound guidance, and plastic access cannulas that are not available in the US. These techniques and the use of plastic cannulas also allow for early cannulation of the fistula in European studies. For these reasons, we question whether the European results are generalizable to the US population.

When comparing the new protocol for Ellipsys (always performing balloon angioplasty) to the De Novo protocol (sometimes performing balloon angioplasty), Ellipsys demonstrated a reduced number of maturation procedures and faster time to cannulation; however, more maintenance procedures were required than the De Novo protocol. In addition, the investigators did not account for potential confounding variables between the different studies, which could have affected outcomes in order to compare the two studies used to claim superiority. We further note that previously, balloon angioplasty was nearly always performed, whether as part of the index procedure, as a maturation procedure, or as a maintenance procedure, and it continued to be a necessary secondary intervention after adoption of the new procedural step.

We are inviting public comments on whether the Ellipsys® Vascular Access System demonstrates improvement over each of the three comparators and meets the substantial clinical improvement criterion.

We received public comments in response to the New Technology Town Hall meeting regarding the application of the Ellipsys® Vascular Access System for new technology add-on payments.

Comment: The applicant submitted a public comment providing an additional study and addressing questions posed at the town hall meeting. The study provided is a single-center retrospective comparison article in press of Ellipsys and sAVF by Harika et al. 107 patients who received pAVF with Ellipsys at this center between May 2017 and May 2018 were compared to an equal number of consecutive patients who received a surgical fistula in the same time period. Patients with grafts or lower extremity fistulae were excluded and baseline characteristics and demographics were comparable between groups. All pAVFs were created by a single surgeon, while the sAVFs were created by 4 surgeons. Primary outcomes were primary and secondary patency rates, as well as maturation as determined by AVF utilization, or >4mm diameter and >500ml/lt flow for pre-dialysis patients. Secondary outcomes assessed secondary interventions and rate of complications. Per the applicant, at 6 weeks, pAVF maturation rates were higher compared to the sAVF arm (65 percent vs 50 percent, p<0.01). In addition, primary patency in the sAVF group was higher than pAVF at 12 months (86 percent vs 61 percent, p<0.01) but comparable at 24 months (52 percent vs 55 percent, p=0.48), and secondary patency rates were not significantly different between groups at 12 or 24 months. Rates of secondary interventions were divided between percutaneous and surgical interventions. At 2 years, the rate of percutaneous reinterventions was similar but the sAVFs required more surgical revisions (36% vs. 17%). Differences in total interventions between groups did not reach statistical significance at 12 and 24 months. The study authors conclude that pAVF’s better aesthetic result, short procedure time, and ability to perform easily in an outpatient office procedure center indicates that Ellipsys has many benefits, but large prospective randomized multicenter studies are needed to confirm the outcomes demonstrated in this study.

In response to a question regarding the need for a head-to-head comparison between WavelinQ and Ellipsys to determine superiority, the applicant stated that there are no randomized controlled trials available but the study (summarized previously) by Shahverdyan et al. provides a reasonable comparison of the two. Per the applicant, the algorithm to choose which procedure to perform reflected “real-world” choices, and the results demonstrated that Ellipsys offers substantial clinical improvement over WavelinQ. In response to a comment questioning the available 2-year data using the current version of Ellipsys, the applicant stated that the 2-year follow-up study (Beathard et al.) of the pivotal trial captured results of patients treated with immediate angioplasty, as that was done in 19 percent of patients even

---


before the procedural change. The applicant further stated that the current version of Ellipsys differs only by the addition of this procedural step, and studies after the pivotal trial adopted this practice to better results, with this combination of results indicating that the balloon angioplasty step improves outcomes over a multi-year period. In addition, the applicant stated that the Harika et al. study (summarized previously) had a 2-year study period, and all patients had immediate balloon angioplasty. In response to a question regarding the comparability of pAVF in the proximal radial artery with a sAVF in the same location, the applicant stated though they are created differently, they are functionally comparable once mature, and neither typically requires superficialization.

Next, in response to a question regarding what the fewer short-term complications using Ellipsys are as compared to sAVF, the applicant stated that these include lower wound morbidity due to minimal incisions, fewer aneurysms, avoidance of vasospasm, and lower incidence of clinically significant steal syndrome. The applicant stated that in sAVF, clinically significant steal syndrome can occur in as many as 11 percent of cases, but it is rare in reports of pAVFs placed with Ellipsys. The applicant summarized information on complications with Ellipsys from the studies previously discussed and stated that (1) Harika et al. reported that sAVFs had a substantially higher rate of wound healing and infections, as well as more occurrences of steal syndrome and aneurysm; (2) Hull et al.’s prospective safety and efficacy study examined possible complications in detail and most complications did not appear at all; (3) the Ellipsys pivotal trial reported no complications due to vessel perforation, dissection, or distal embolization were reported; (4) in the Hull et al. Maturation Study, several adverse events were reported including one hematoma, one arm swelling, and one case of steal syndrome; and (5) Mallios et al.’s report on mid-term results reported no complications, other than cases treated with balloon angioplasty and one case of arm swelling.

The applicant also addressed a final question in its public comment regarding the definition of improved durability. The applicant stated that this is an umbrella term used to reflect the useful life of an AVF for dialysis, and can include different patency measures. Response: We thank the applicant for its comments and will take this information into consideration when deciding whether to approve new technology add-on payments for the Ellipsys Vascular Access System. With regard to the Harika et al. study provided, we note that prespecified subgroup analyses of pAVF vs elbow fistulae (e-AVF) and pAVF vs wrist fistulae were also compared, with elbow fistula considered to be the most similar comparator to “real world” vascular access practice patterns. When comparing outcomes between e-AVF and p-AVF groups in this study, differences in total interventions, maturation at 6 weeks, and secondary patency rates were not significantly different. e-AVF also demonstrated higher 12 month primary patency (p=0.02). We further note that though the applicant asserted that Ellipsys decreases the need for secondary interventions as compared to sAVF, this study did not demonstrate a statistically significant difference between arms for total interventions at 12 or 24 months, and we are concerned that this may not demonstrate a substantial clinical improvement for Ellipsys over sAVF.

Comment: Another public comment was submitted in response to the Town Hall meeting. The commenter stated that during the FY 2022 New Technology Town Hall Meeting, Avenu Medical relied upon a single published study to support claims of substantial clinical improvement for Ellipsys over WavelinQ. Per the commenter, this study indicated that limitations of the review include those of any retrospective analysis on nonrandomized data and possible selection bias. Per the commenter, the authors of the study concluded that both of the devices had high technical success rates and adequate flow volumes, as well as no significant difference in primary patency, and that the devices may serve different patient populations, since patients can be anatomically eligible for one or the other. The commenter concludes that it is important that both technologies are available as treatment options for Medicare beneficiaries and they believe CMS should consider new technology add-on payments for the two pAVF systems together. They also stated that CMS should designate a new technology add-on payment category for devices used in percutaneous creation of an AVF.

Response: We thank the commenter for their input and will take this information into consideration when deciding whether to approve new technology add-on payments for the Ellipsys Vascular Access System. We note that we are unclear with regard to the commenter’s request for a new technology add-on payment category, as the IPPS payment system does not utilize categories, and this request may be referring to another payment system.

g. ENSPRYNG™ (satralizumab-mwge)

Genentech, Inc. submitted an application for new technology add-on payments for the ENSPRYNG™ (satralizumab-mwge) injection (ENSPRYNG) for FY 2022. According to the applicant, ENSPRYNG is indicated by the FDA for the treatment of neuromyelitis optica spectrum disorder (NMOSD) in adult patients who are anti-aquaporin-4 (AQP4) antibody positive. ENSPRYNG is the first subcutaneous, first self-administered, and third FDA-approved drug for the treatment of this severe chronic autoimmune disease of the central nervous system. The applicant states, due to the severity of relapses, relapse prevention is a key disease management priority. Patients who relapse are often admitted to the hospital for acute treatment. According to the applicant, with every relapse, patients are at risk of becoming blind or paralyzed, and thus it is critical to minimize the risk of future relapses by initiating maintenance treatment with a therapy such as ENSPRYNG in a timely manner while the patient is still


201 Shahverdyan R, et al., “Comparison of Outcomes of Percutaneous Arteriovenous Fistula Creation by Ellipsys and WavelinQ Devices;”
admitted. Therefore, according to the applicant, ENSPRYNG should be approved for new technology add-on payments in order to maximize the likelihood that this especially sick patient population can start the treatment they need while in the inpatient setting.

According to the applicant, NMOSD is a rare, inflammatory, potentially life-threatening autoimmune central nervous system (CNS) disorder characterized primarily by severe, unpredictable relapses of optic neuritis and/or acute longitudinally extensive transverse myelitis (LETM).203 The applicant asserts that NMOSD has an estimated prevalence of 0.1–10 per 100,000 individuals, affecting nearly 15,000 individuals in the United States.204 NMOSD occurs in children and adults200 of all races207 and disproportionately affects African and Asian females aged 30 to 40 years.208 According to the applicant, the (bilateral) optic neuritis and/or LETM that are characteristic of NMOSD result from inflammation of the optic nerve, spinal cord,209 and brainstem,210 but other regions of the CNS may be affected as well. The vast majority of patients (80%–90%) experience repeated relapses, and disability accumulates with each relapse.211 Around 60% of patients relapse within one year of diagnosis, and 90% relapse within 3 years.212 Compared with patients who experience an isolated attack, patients with relapsing disease have greater disease-related clinical burden, and upward of 83% of patients do not fully recover after subsequent relapses.213 According to the applicant, the negative impact of NMOSD on patient quality of life (QoL) is predominantly a result of physical disability, pain, vision impairment, and bowel and bladder dysfunction.214 Disease-induced disability and symptoms have a considerable impact on patients’ ability to work and thrive in social activities and personal relationships.215 The applicant added that the loss of motor and sensory function leads to approximately 50% of patients requiring a wheelchair216 and 62% of patients becoming functionally blind217 within 5 years of diagnosis.218 Therefore, according to the applicant, it is critical that treatments that consistently and effectively reduce the risk of relapse are initiated rapidly in patients diagnosed with NMOSD.

With respect to the newness criterion, ENSPRYNG received FDA BLA approval on August 14, 2020. The applicant added that ENSPRYNG was granted Fast Track designation219 and Breakthrough Therapy designation.220


215 Ibid.


220 Genentech, USA Inc. FDA Approves Genentech’s ENSPRYNG for Neuromyelitis Optica by the FDA. The applicant stated that ENSPRYNG was not commercially available until August 24, 2020 because the applicant had to wait for final approval for printing and labeling as well as customs and importation. The recommended loading dosage of ENSPRYNG for the first three administrations is 120 mg by subcutaneous injection at Weeks 0, 2, and 4, followed by a maintenance dosage of 120 mg every four weeks. The applicant submitted a request for an ICD–10–PCS code to uniquely identify the NMOSD treatment guidelines beginning FY 2022.

As discussed earlier, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments. The applicant stated that there are limited treatment guidelines available for NMOSD with the most recent US guidelines published in 2012. These US NMOSD treatment guidelines exclusively recommend off-label drugs: Azathioprine, with or without prednisone; mycophenolate mofetil, with or without prednisone; rituximab; or prednisone alone.222 The applicant stated that there are presently two other FDA-approved therapies for patients with AQP4-IgG positive NMOSD: SOLIRIS (eculizumab),223 which was approved in 2019, and UPLIZNA (inebilizumab–cdon), which was approved in 2020.224 With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant stated that ENSPRYNG is an interleukin-6 (IL–6) receptor antagonist indicated for the treatment of NMOSD in adult patients who are AQP4-IgG positive.224 According to the applicant, ENSPRYNG targets soluble and membrane-bound IL–6 receptors to inhibit IL–6 signaling and simultaneously disrupt downstream inflammatory responses.
effects that contribute to the pathophysiology of NMOSD;\textsuperscript{225} ENSPRYNG dissociates from the IL–6 receptor at an acidic pH within endosomes and is recycled to circulation, prolonging the plasma half-life of the drug.\textsuperscript{226}

The applicant next identified other drugs used to treat NMOSD and their corresponding mechanisms of action. According to the applicant, these current treatments include: SOLIRIS, for which a precise mechanism of action is unknown but is presumed to involve inhibition of AQP4-IgG-induced terminal complement C5b-9 deposition;\textsuperscript{227} UPLIZNA, for which a precise mechanism of action is unknown but is presumed to involve binding to CD20 antigen on pre-B and mature B cells;\textsuperscript{228} azathioprine, for which a precise mechanism of action is unknown;\textsuperscript{229} Rituxan, which targets CD20 antigen on B cells and leads to profound B cell depletion, principally over an antibody-dependent cell cytotoxicity mechanism;\textsuperscript{230} mycophenolate mofetil, which is an immunosuppressive and an inhibitor of inosine monophosphate dehydrogenase and therefore of the guanosine nucleotide synthesis pathway upon which T and B cells depend;\textsuperscript{231} and prednisone, which is a synthetic adrenocortical steroid drug with predominately corticosteroid properties.\textsuperscript{232} The applicant concluded that none of these current drugs are characterized by their binding and blocking of soluble and membrane-bound IL–6 receptors to inhibit IL–6 signaling. Therefore, the applicant believes ENSPRYNG has a unique and distinct mechanism of action.

With respect to the second criterion, whether a product is assigned to the same or different MS–DRG, the applicant acknowledged that ENSPRYNG may be assigned to the same MS–DRG when compared to existing technology. Per the applicant, cases representing patients who may be eligible for treatment with ENSPRYNG map to MS–DRGs 058, 059, and 060. With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant stated that the use of ENSPRYNG may not involve the treatment of the same or similar patient population when compared with an existing technology because: (1) Current technologies such as SOLIRIS may be contraindicated in patients with unresolved serious \textit{Neisseria meningitidis} infections; and (2) SOLIRIS and UPLIZNA are administered as IV infusions which not all patients may be willing to receive.

In summary, the applicant asserts ENSPRYNG meets the newness criterion because it is the only treatment for NMOSD that works specifically by suppressing IL–6 signaling, and because it may not involve the treatment of the same or similar patient population as existing technology. We note that the applicant states that the use of ENSPRYNG may not involve treatment of the same or similar patient population when compared to SOLIRIS with regard to the treatment of patients with unresolved serious \textit{Neisseria meningitidis} infection and with regard to the treatment of patients unwilling to receive an IV infusion. However, we question if UPLIZNA may also be a treatment option for patients with meningococcal disease. We further question whether patients are unwilling to receive an IV infusion would constitute a new patient population for NMOSD. We invite public comment on whether ENSPRYNG involves the treatment of the same or similar patient population when compared to existing technologies.

We are inviting public comments on whether ENSPRYNG is substantially similar to other technologies and whether ENSPRYNG meets the newness criterion. With regard to the cost criterion, the applicant provided two cost analyses, with the first being an update of the analysis used in FY 2021 by the applicant for SOLIRIS, which is also indicated for NMOSD, and the second which is specific to ENSPRYNG.
average case-weighted standardized charge per case of $175,021, which exceeded the case-weighted threshold of $47,813. The applicant asserted that ENSPRYNG meets the cost criterion based on these analyses.

Based on the information provided by the applicant, it is uncertain to us why the national other services average CCR was used to inflate costs to charges in the first analysis when the applicant indicated that it removed charges from the drugs cost center and blood cost center. We are seeking public comment on whether this or another CCR, such as a CCR for drugs or blood and blood products, would be more appropriate. Furthermore, in the event that a MS–DRG has fewer than 11 cases, the applicant should impute a minimum case number of 11. We are inviting public comments on whether ENSPRYNG meets the cost criterion, including whether the use of another CCR would substantially alter the results of the applicant’s analysis. With regard to the substantial clinical improvement criterion, the applicant asserts that ENSPRYNG represents a substantial clinical improvement in the following ways: (1) It significantly improves clinical outcomes relative to services or technologies previously available for the treatment of NMOSD in adult patients who are AQP4-IgG positive; (2) these improvements are not accompanied by serious safety concerns; (3) ENSPRYNG is the only FDA-approved treatment for NMOSD that is subcutaneously administered;233 and (4) the totality of circumstances demonstrates ENSPRYNG, relative to technologies previously available, substantially improves the treatment of Medicare beneficiaries. The applicant submitted two recent studies to support their claims of substantial clinical improvement over existing technologies. The SAkuraStar (NCT02073279)234 study was a Phase 3, double-blind, placebo-controlled, parallel-group trial at 44 investigational sites in 13 countries to assess the safety and efficacy of ENSPRYNG monotherapy in patients with NMOSD. 95 (57%) of 168 screened participants aged 18–74 years with AQP4-IgG positive or negative NMOSD met the inclusion criteria and were randomly assigned (2:1) to treatment with ENSPRYNG 120mg (n=63) or visually matched placebo (n=32). Inclusion criteria included participants who had experienced at least one documented NMOSD attack or relapse in the previous 12 months and had a score of 6.5 or less on the Expanded Disability Status Scale, while exclusion criteria included clinical relapse 30 days or fewer before baseline. The primary endpoint was time to the first protocol-defined relapse, based on the intention-to-treat (ITT) population (AQP4-IgG positive and negative) (n=95), and analyzed with stratification for two randomization factors (previous therapy for prevention of attacks and nature of the most recent attack). Treatment in both arms was given subcutaneously at weeks 0, 2, 4, and every 4 weeks thereafter. The double-blind phase was due to last until 44 protocol-defined relapses occurred or 1.5 years after random assignment of the last patient enrolled, whichever occurred first. Participants could enter an open-label phase after the occurrence of a protocol-defined relapse or at the end of the double-blind phase. Protocol-defined relapses occurred in 19 (30%) patients receiving satralizumab and 16 (50%) receiving placebo (hazard ratio 0.45, 95% CI 0.23–0.89; p=0.018). 473.9 adverse events per 100 patient-years occurred in the satralizumab group and 495.2 per 100 patient-years in the placebo group. The authors noted that the incidence of serious adverse events and adverse events leading to withdrawal was similar between groups. According to the applicant, this study demonstrated that the first relapse was significantly longer in ENSPRYNG-treated patients compared with patients who received a placebo (risk reduction, 55%; hazard ratio, 0.45 (95% CI 0.23, 0.89); p = 0.0184). In the AQP4-IgG positive population, there was a 74% risk reduction and a hazard ratio of 0.26 (95% CI 0.11, 0.63; p = 0.0014). The results in the subgroup of AQP4-IgG negative patients were not statistically significant.235 236 The annualized relapse rate for AQP4-IgG positive patients was 0.1 (95% CI, 0.05–0.2) in the ENSPRYNG group and 0.5 (95% CI, 0.3–0.9) in the placebo group.237 The proportion of relapse-free AQP4-IgG positive patients at week 96 was 77% in the ENSPRYNG group and 41% in the placebo group.238 According to the applicant, the study concluded that ENSPRYNG monotherapy reduced the rate of NMOSD relapse compared with placebo in the overall trial population and had a favorable safety profile.

In the second Phase 3, randomized, double-blind, placebo controlled study submitted by the applicant, the SAkuraSky (NCT02028884)239 trial, 83 patients with NMOSD who were seropositive or seronegative for AQP4-IgG were randomly assigned (1:1) to receive either 120 mg of satralizumab (n=41) or placebo (n=42) administered subcutaneously at weeks 0, 2, and 4 and every 4 weeks thereafter, in addition to stable IST. The primary end point was the first protocol-defined relapse in a time-to-event analysis. Key secondary end points were the change from baseline to week 24 in the visual-analogue scale (VAS) pain score (range, 0 to 100, with higher scores indicating more pain) and the Functional Assessment of Chronic Illness Therapy-Fatigue (FACIT–F) score (range, 0 to 52, with lower scores indicating more fatigue). Safety was also assessed.

The results of the SAkuraSky trial demonstrated that the median treatment duration with satralizumab in the double-blind period was 107.4 weeks. Relapse occurred in 8 patients (20%) receiving satralizumab and in 18 (43%) receiving placebo (hazard ratio, 0.38; 95% confidence interval [CI], 0.16 to 0.88). Multiple imputations for censored data (including patients who discontinued the trial, received rescue therapy, had a change in baseline treatment, or were continuing in the

trial at the data-cutoff date) resulted in hazard ratios ranging from 0.34 to 0.44 (with corresponding P values of 0.01 to 0.04). Among the 55 AQP4-IgG-seropositive patients, relapse occurred in 11% of those in the satralizumab group and in 43% of those in the placebo group (hazard ratio, 0.21; 95% CI, 0.06 to 0.75); among 28 AQP4-IgG-seronegative patients, relapse occurred in 36% and 43%, respectively (hazard ratio, 0.66; 95% CI, 0.20 to 2.24). The between-group difference in the change in the mean VAS pain score was 4.08 (95% CI, −8.44 to 16.61); the between-group difference in the change in the mean FACIT–F score was −3.10 (95% CI, −8.38 to 2.18). The rates of serious adverse events and infections did not differ between groups.

In support of the applicant’s claim that ENSPRYNG significantly improves clinical outcomes relative to services or technologies previously available for the treatment of NMOSD in adult patients, the applicant stated that patients treated with ENSPRYNG plus IST exhibited a significantly longer time to first relapse when compared to placebo. This also included a risk reduction of 62% in patients treated with ENSPRYNG plus IST when compared with patients who received a placebo plus IST and a 79% risk reduction in the AQP4-IgG positive population. Results in the AQP4-IgG negative patient subgroup were not statistically significant.240 The proportion of relapse free AQP4-IgG positive patients at week 96 was 92% in ENSPRYNG plus IST group and 53% in the placebo plus IST group.241

According to the applicant’s second claim, substantial improvements in clinical efficacy are not accompanied by serious concerns. In the SAkuraSky trial, 90% of patients in the ENSPRYNG plus IST group had at least one adverse event compared to 95% in the placebo plus IST group.242 The safety profile of ENSPRYNG in the OST period was consistent with the double-blind period. There were no deaths or anaphylactic reactions, rates of AEs and serious AEs did not increase with longer exposure to ENSPRYNG; and the most frequently reported AEs in the OST period were

The applicant’s third claim concerns the flexibility provided to patients by the option to self-administer ENSPRYNG. According to the applicant, ENSPRYNG is the only FDA-approved treatment for NMOSD that is administered subcutaneously.244 Once treatment is initiated during inpatient hospital admission, upon discharge and having received adequate training on how to perform the injection, an adult patient/caregiver may administer all subsequent doses of ENSPRYNG at home if the treating physician determines that it is appropriate and the adult patient/caregiver can perform the injection technique. According to the applicant, self-administration provides the patient the option to continue the therapy initiated in the hospital while in the convenience of their own home, with reduced disruption to daily life. The applicant states that additionally, the option to self-administer provides flexibility to patients, as they can bring their medication with them while traveling without having to worry if there is an infusion site nearby. The applicant claims this may potentially reduce the rate of hospital readmissions.

In their fourth claim, the applicant states the totality of circumstances otherwise demonstrate that ENSPRYNG, relative to technologies previously available, substantially improves the treatment of Medicare beneficiaries. The applicant asserts that a cross trial comparison between ENSPRYNG and SOLIRIS (approved for new technology add-on payment in FY 2021) cannot be made due to differences in trial design and study population. However, the applicant noted the following distinctions between ENSPRYNG and SOLIRIS and their clinical trials. Per the applicant, the first distinction is that in the registrational study for SOLIRIS, a higher proportion of patients receiving SOLIRIS than those receiving a placebo discontinued their participation in the clinical trial (17% vs 6%).245 During the double-blind period of SAkuraSky trial, however, a total of three patients (7%) in the ENSPRYNG group and 10 patients (24%) in the placebo group discontinued the trial agent.246 The applicant states that discontinuation of SOLIRIS may be associated with relapse and hospitalization. The second distinction made by the applicant is that the prescribing information for ENSPRYNG247 does not bear a black-box warning, in contrast to that of SOLIRIS.248 The third distinction is that patients must be vaccinated against Neisseria meningitidis before receiving SOLIRIS249 and no such requirement applies to ENSPRYNG.250 The fourth and final distinction made by the applicant highlights duration of treatment. In the SAkuraSky trial, the mean period of treatment in the double-blind period was 94.17±2.6 weeks in the ENSPRYNG group and 66.0±61.4 weeks in the placebo group.251 However, the median trial durations were shorter in the SOLIRIS trial, at 90.93 and 43.14 weeks (minimum-maximum, 6.4–211.1 and 8.0–208.6) for the SOLIRIS and placebo groups, respectively.252

In connection with the applicant’s fourth claim to support substantial clinical improvement, the applicant stated that both the SAkuraStar253 and SAkuraSky254 clinical trials included comparator arms. In SAkuraStar, an exclusion criterion was IST use, whereas in SAkuraSky, patients were permitted to continue baseline treatment with a stable dose of the IST agents in addition to the trial drug. This allowed the efficacy of ENSPRYNG to be assessed both in patients who were

240 ENSPRYNG (satralizumab) [prescribing information]. South San Francisco, CA: Genentech USA, Inc.; 2020.
243 Greenberg B, Seze JD, Fox E. et al. Safety of satralizumab in neuromyelitis optica spectrum disorder (NMOSD): Results from the open-label extension periods of SAkuraSky and SAkuraStar Presentation at: Americas Committee for treatment and research in Multiple Sclerosis (ACTRIMS); September 2020; Virtual.
244 ENSPRYNG (satralizumab) [prescribing information]. South San Francisco, CA: Genentech USA, Inc.; 2020.
249 ENSPRYNG (satralizumab) [prescribing information]. South San Francisco, CA: Genentech USA, Inc.; 2020.
receiving one of the IST agents for their NMOSD and in the others who were receiving nothing at all. The applicant stated that in contrast, SOLIRIS was tested only in a single Phase 3 clinical trial where the primary end point was the first adjudicated relapse in the population of patients taking stable-dose IST and either SOLIRIS or placebo; the efficacy of SOLIRIS monotherapy was a sub-analysis, and UPLIZNA was tested only in a single Phase 3 clinical trial as a monotherapy with only a 28-week randomized, controlled period. According to the applicant, ENSPRYNG has received approval by regulatory authorities in Japan, Canada, and Switzerland for the treatment of both adults and adolescents (12–17 years of age) with NMOSD. The applicant asserts that patients in the ENSPRYNG clinical trials likely are representative of Medicare patients despite their mean ages (45.3 years for the ENSPRYNG arm of SAkuraSky 259 and 40.8 years for the ENSPRYNG arm of SAkuraStar259) being less than 65, as NMOSD is so severe that patients may qualify for disability accompanied by Medicare benefits regardless of their age. The applicant explained that a severe onset attack causing increased disability is reported to occur in 45% of patients with NMOSD and that 52.4% of U.S.-based NMOSD patients report severe problems with mobility, which is consistent with definitions of disability used by the Social Security Administration. Per the applicant, SSA maintains a list of impairments considered severe enough to prevent gainful activity. Though NMOSD is not listed, multiple sclerosis (MS) is, and the two conditions are frequently confused due to similarities between clinical presentations.

According to the applicant, the SSA is open to allowing people to qualify for disability by showing their condition is as severe as one that is on the list. After reviewing the information submitted by the applicant as part of its FY 2022 new technology add-on payment application for ENSPRYNG, we note that while the applicant provided data comparing ENSPRYNG to placebo with or without IST, the applicant did not provide data to demonstrate improved outcomes over existing FDA approved treatments for NMOSD. While the applicant states reasons why a comparison could not be made, additional information would help inform our assessment of whether ENSPRYNG demonstrates a significant clinical improvement over existing technologies for outcomes such as time to first relapse and annual relapse rate. In addition, while we understand that there may be potential benefits related to the self-administrative delivery of ENSPRYNG, we question if the benefits are related only to the outpatient administration of the medication and whether they would demonstrate improved clinical outcomes that represent a substantial clinical improvement in the inpatient setting. We are inviting public comments on whether ENSPRYNG meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for ENSPRYNG. h. ABECKA® (idecabtagene vicleucel)

Celgene Corporation, a wholly owned subsidiary of Bristol-Myers Squibb (BMS), submitted an application for new technology add-on payment for idecabtagene vicleucel for FY 2022. Idecabtagene vicleucel is a B-cell maturation antigen (BCMA)-directed genetically modified autologous chimeric antigen receptor (CAR) T-cell immunotherapy for the treatment of adult patients with relapsed or refractory (RR) multiple myeloma (MM) (RRM) who have received at least four prior therapies including an immunomodulatory agent (IMiD), a proteasome inhibitor (PI), and an anti-CD38 antibody (for example, triple-class-exposed). Idecabtagene vicleucel is expected to be a 5th line plus (5L+) treatment.

Multiple myeloma (MM) is typically characterized by the neoplastic proliferation of plasma cells producing a monoclonal immunoglobulin. The plasma cells proliferate in the bone marrow and can result in extensive skeletal destruction with osteolytic lesions, osteopenia, and/or pathologic fractures. The diagnosis of MM is often suspected because of one (or more) of the following clinical presentations:

- Bone pain with lytic lesions discovered on routine skeletal films or other imaging modalities
- An increased total serum protein concentration and/or the presence of a monoclonal protein in the urine or serum
- Systemic signs or symptoms suggestive of malignancy, such as unexplained anemia
- Hypercalcemia, which is either symptomatic or discovered incidentally
- Acute renal failure with a bland urinalysis or rarely nephrotic syndrome due to concurrent immunoglobulin light chain (AL) amyloidosis

It is important to distinguish MM both from other causes of these clinical presentations and from other plasma cell dyscrasias for the purposes of prognosis and treatment. Data from the U.S. Surveillance, Epidemiology, and End Results (SEER) registry estimate 32,000 new cases of MM and

13,000 deaths from MM annually in the U.S. This correlates with an annual incidence of approximately 7 per 100,000 men and women per year. MM is largely a disease of older adults. The median age at diagnosis is 65 to 74 years. MM is also slightly more frequent in men than in women (approximately 1.4:1). MM is associated with substantial morbidity and mortality and approximately 25% of patients have a median survival of 2 years or less. With respect to the newness criterion, idecabtagene vicleucel received FDA approval on March 26, 2021, and has marketing authorization under the name of Abecma® and is indicated for the treatment of adult patients with relapsed or refractory multiple myeloma after four or more prior lines of therapy, including an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 monoclonal antibody. A single dose of idecabtagene vicleucel contains a cell suspension of 300 to 460 CAR T-cells.

The applicant submitted a request for unique ICD–10–PCS codes that describe the administration of idecabtagene vicleucel at the September 2020 Coordination and Maintenance Committee meeting. The following codes were approved to describe procedures involving the administration of idecabtagene vicleucel: VX033L7 (Introduction of idecabtagene vicleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 7) and VX043L7 (Introduction of idecabtagene vicleucel immunotherapy into central vein, percutaneous approach, new technology group 7). These codes will be effective starting October 1, 2021.

As previously stated, if a technology meets all three of the substantial similarity criteria as previously described, it would be considered substantially similar to an existing technology and therefore would not be considered “new” for purposes of new technology add-on payments. With respect to whether a product uses the same or a similar mechanism of action when compared to an existing technology to achieve a therapeutic outcome, the applicant asserts that idecabtagene vicleucel does not use the same or similar mechanism of action as other therapies approved to treat 4L+ RRMM or CAR T-cell therapies approved to treat different diseases. According to the applicant, with regard to its mechanism of action, idecabtagene vicleucel is a chimeric antigen receptor (CAR)-positive T cell therapy targeting B-cell maturation antigen (BCMA), which is expressed on the surface of normal and malignant plasma cells. The CAR construct includes an anti-BCMA scFv-targeting domain for antigen specificity, a transmembrane domain, a CD3-zeta T cell activation domain, and a 4-1BB costimulatory domain. Antigen-specific activation of idecabtagene vicleucel results in CAR-positive T cell proliferation, cytokine secretion, and subsequent cytolytic killing of BCMA-expressing cells.

According to the applicant, with respect to the non-CAR T-cell therapies to treat 4L+ RRMM, specifically Xpovio®, Blenrep, and chemotherapy, idecabtagene vicleucel’s mechanism of action is different because it is a CAR T-cell therapy. The applicant states that the mechanism of action for Xpovio® is reversible inhibition of nuclear export of tumor suppressor proteins (TSPs), growth regulators, and mRNAs of oncogenic proteins by blocking exportin 1 (XPO1). XPO1 inhibition by Xpovio® leads to accumulation of TSPs in the nucleus, reductions in several oncoproteins, such as c-myc (a “master regulator” which controls many aspects of cellular growth regulation and cellular metabolism) and cyclin D1, cell cycle arrest, and apoptosis of cancer cells. The applicant states that Blenrep’s mechanism of action is cell destruction via microtubule inhibition, where the microtubule inhibitor is conjugated to a BCMA-specific antibody (antibody-drug conjugate). The applicant further states that the mechanism of action for chemotherapy regimens generally is disruption of normal processes required for cell survival, such as deoxyribo nucleic acid (DNA) replication and protein synthesis or degradation.

With respect to the mechanism of action of other currently FDA approved CAR T-cell therapies, according to the applicant, there are no other FDA approved CAR T-cell therapies that are indicated for treatment of RRMM with the same or similar mechanism of action as idecabtagene vicleucel. The applicant stated that CAR T-cell therapies employ a unique mechanism of action which modifies the patient’s own T-cell to express a chimeric antigen receptor (CAR) that programs T-cells to destroy cells that express a specific target. In the case of idecabtagene vicleucel, this target is BCMA, which is a protein that is highly expressed on the surface of MM cells making it an ideal target for the treatment of MM. The applicant asserts that the key feature that distinguishes idecabtagene vicleucel from CD-19 directed CAR T-cell therapies is the BCMA targeting domain. According to the applicant, idecabtagene vicleucel’s BCMA targeting domain means that idecabtagene vicleucel has a completely different mechanism of action from other currently FDA approved CAR T-cell therapies. In its application, the applicant asserted that since there are currently no FDA approved anti-BCMA CAR T-cell therapies, if approved, idecabtagene vicleucel is the first CAR T-cell therapy approved for the treatment of RRMM and the only approved CAR T-cell therapy with a BCMA targeting domain which makes it unique as compared to other currently approved FDA therapies used to treat RRMM.

With regard to whether a product is assigned to the same DRG when compared to an existing technology, the applicant stated that it expects that cases involving the administration idecabtagene vicleucel will be assigned to the same MS–DRG, MS–DRG 018 (Chimeric Antigen Receptor (CAR) T-cell Immunotherapy), as other CAR T-cell therapies. In its application, the applicant further asserted that idecabtagene vicleucel would be indicated for a broader population than other currently FDA approved available therapies, specifically multiple myeloma patients having received four prior therapies. In summary, according to the applicant, because idecabtagene vicleucel has a unique mechanism of action when compared to other currently FDA approved treatments for RRMM, and does not involve the treatment of the same or similar type of disease (RRMM) or the same or similar patient population when compared to an existing technology, the applicant stated that it expects that cases involving the administration idecabtagene vicleucel will be the first and only anti-BCMA CAR T-cell therapy available to treat RRMM. The applicant further asserted that idecabtagene vicleucel would be indicated for a broader population than other currently FDA approved available therapies, specifically multiple myeloma patients having received four prior therapies.

In summary, according to the applicant, because idecabtagene vicleucel has a unique mechanism of action when compared to other currently FDA approved treatments for RRMM, and does not involve the treatment of the same or similar type of disease (RRMM) or the same or similar patient population (triple-class-exposed adult patients with RRMM), the technology is not substantially similar to an existing technology and therefore meets the newness criterion. However, we question whether idecabtagene vicleucel’s mechanism of action may be similar to that of cilta-cabtagene vilucel, a newer CAR T-cell therapy for which an application for new technology add-on payments was
submitted for FY 2022 as discussed previously. Both idecabtagene vicleucel and ciltacabtagene autoleucel seem to be intended for similar patient populations; multiple myeloma patients with three or more prior therapies, and would involve the treatment of the same conditions; adult patients with relapsed or refractory multiple myeloma. We are interested in information on how these two technologies may differ from each other with respect to the substantial similarity criteria and newness criterion, to inform our analysis of whether idecabtagene vicleucel and ciltacabtagene autoleucel, if approved by July 1, 2021, are substantially similar to each other and therefore should be considered as a single application for purposes of new technology add-on payments.

We are inviting public comments on whether idecabtagene vicleucel is substantially similar to an existing technology and whether it meets the newness criterion.

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C90.00</td>
<td>Multiple myeloma not having achieved remission</td>
</tr>
<tr>
<td>C90.02</td>
<td>Multiple myeloma in relapse</td>
</tr>
</tbody>
</table>

The applicant chose to limit its analysis to MS–DRG 016 (Autologous Bone Marrow Transplant W CC/MCC or T-Cell Immunotherapy), MS–DRG 840 (Lymphoma & Non-Acute Leukemia W MCC) and MS–DRG 841 (Lymphoma & Non-Acute Leukemia W CC). The claim search conducted by the applicant resulted in 1,955 claims mapped to MS–DRG 016, MS–DRG 840 and MS–DRG 841 using the FY 2019 MedPAR. The applicant determined an average unstandardized case weighted charge per case of $1,237,393. The applicant used the MS–DRG–018 New Technology Threshold for FY 2022 from the FY 2021 IPPS/LTCH PPS final rule.

The applicant removed all charges in the drug cost center for the prior technology because, according to the applicant, it is not possible to differentiate between different drugs on inpatient claims. The applicant added that this is likely an overestimate of the charges that would be replaced by the use of idecabtagene vicleucel. The applicant then standardized the charges using the FY 2019 final rule impact file. Next, the applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges (1.13218). To calculate the charges for the new technology, the applicant used a national average CCR for the CAR T-cell therapies of 0.295. To determine this alternative CCR for CAR T-cell therapies, the applicant referred to the FY 2021 IPPS/LTCH PPS final rule AOR/BOR file and calculated an alternative markup percentage by dividing the AOR drug charges within DRG 018 by the number of cases to determine a per case drug charge. The applicant then divided the drug charges per case by $373,000, the acquisition cost of YESCARTA and KYMRIAH. The applicant calculated a final inflated average case-weighted standardized charge per case of $1,329,540, which exceeded the average case-weighted threshold amount of $1,251,127 by $78,413. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

As noted in previous discussions, the submitted costs for CAR T-cell therapies vary widely due to differences in provider billing and charging practices for this therapy. Therefore, with regard to the use of this data for purposes of calculating a CAR T-cell CCR, we are uncertain how representative this data is for use in the applicant’s cost analyses given the potential for variability.

We continue to be interested in public comments regarding the eligibility of CAR T-cell technologies for new technology add-on payments when assigned to MS–DRG 018. As we have noted in prior rulemaking with regard to the CAR T-cell therapies (83 FR 41172 and 85 FR 58603 through 58608), if a new MS–DRG were to be created, then consistent with section 1886(d)(5)(K)(ix) of the Act, there may no longer be a need for a new technology add-on payment under section 1886(d)(5)(K)(i)(III) of the Act.

We invite public comment on whether idecabtagene vicleucel meets the cost criterion.

With regard to the substantial clinical improvement criterion, the applicant asserted that it believes that idecabtagene vicleucel represents a substantial clinical improvement over existing technologies because: (1) The total similarity of the circumstances regarding idecabtagene vicleucel’s clinical efficacy, safety, and data make clear that idecabtagene vicleucel substantially improves, relative to services or technologies currently available, the treatment of Medicare beneficiaries with RRMM; (2) idecabtagene vicleucel has superior effectiveness compared to existing therapies; (3) idecabtagene vicleucel fills an unmet need as demonstrated by the patient population in its registrational study, which is reflective of real-world RRMM patients; and (4) idecabtagene vicleucel improves quality of life for patients with RRMM.

In support of its assertion that the totality of the circumstances regarding idecabtagene vicleucel’s clinical efficacy, safety, and data make clear that idecabtagene vicleucel substantially improves, relative to services or technologies currently available, the treatment of Medicare beneficiaries with RRMM, the applicant cited results from the KarMMA study, a single-arm, open-label, phase 2 trial of idecabtagene vicleucel. The primary outcome measure for the KarMMA study was overall response rate (ORR). Secondary endpoints were: complete response rate (CRR) (key secondary; null hypothesis ≤10%), safety, duration of response (DOR), progression-free survival (PFS), overall survival (OS), pharmacokinetics (PK), minimum residual disease (MRD), quality of life (QOL) and health economics and outcomes research (HEOR). The study enrolled 140 patients and 128 received treatment. Patients were treated at target dose between 150 and 450 x 10^6 CAR T-cells. Treated patients had received three or more prior lines of therapy including an immunomodulatory drug (IMiD), a proteasome inhibitor (PI), and an anti-CD38 antibody. All patients were refractory to the last regimen (94% were refractory to anti-CD38 and 84% were...
refractory to triple therapy). Efficacy results showed an ORR of 50% for patients (n=4) receiving the target idecabtagene vicleucel dose of 150 x10⁶; 68.6% for patients (n=70) receiving the target dose of 300 x10⁶; 81.5% for patients (n=54) receiving the target dose of 450 x 10⁶. The overall ORR for all patients (n=128) who received idecabtagene vicleucel was 73.4%.

The applicant asserts that in the KarMMa study, patients who received idecabtagene vicleucel achieved numerically superior response rates, duration of response, and overall survival compared with outcomes seen for alternative therapies (belantamab-mafodotin and selinexor) in other trials.271 272 273 274 275 276 Response rates, according to the applicant, were also high even in patients refractory to five therapies (defined as 2 IMiD agents, 2 PIs, and 1 anti-CD38 antibody), reflecting the novel mechanism of action, according to the applicant. The applicant asserts that compared with anti-CD–19 CAR T-cell therapies, the adverse event profile revealed low rates of grade 3+ CRS (5%) and neurotoxicity (NT) (3%).277 According to the applicant, those results confirm that idecabtagene vicleucel has the potential to offer a meaningful benefit to Medicare beneficiaries. The applicant also asserts that idecabtagene vicleucel has been demonstrated to be effective and with a manageable safety profile for patients with a high-unmet need (older age, aggressive disease). The applicant asserts that the results from the pivotal KarMMa study confirm the clinical benefit of idecabtagene vicleucel in a heavily pre-treated RRMM patient population.

We note that in contrast with anti-CD–19 CAR T-cell therapies (for leukemia or lymphoma) where a high fraction of responders remained in remission even after 5 years, idecabtagene vicleucel does not appear to result in long-term remission. In the KarMMa study, among responding patients, over 75% relapsed by 20 months, with no plateauing of the response curve.278 To support its assertion that idecabtagene vicleucel has superior effectiveness compared to existing therapies, the applicant provided results from the KarMMa–RW study, a single-arm, open-label, phase 2 trial, examining real-world treatment patterns in heavily pretreated patients with RRMM. The study also provides a comparison against outcomes in the KarMMa study. The KarMMa–RW study was conducted to assess treatment patterns in real-world RRMM patients with characteristics similar to the KarMMa population and to compare outcomes with currently available therapies in this synthetic cohort vs idecabtagene vicleucel therapy in the KarMMa study. The primary endpoint of the KarMMa–RW study was overall response rate (ORR). Secondary endpoints of the study were complete response rate (CRR), very good partial response (VGPR) rate, progression free survival (PFS) and overall survival (OS). Subgroup analyses by age, sex, double-class refractory (IMiD agents and PIs) and number of prior anti-myeloma regimens per patient (≤1 per year or >1) were conducted to compare ORR and PFS between the KarMMa cohort and eligible RRMM cohort. The primary complete response assessment requires a bone marrow biopsy evaluation, per International Myeloma Working Group (IMWG) uniform response criteria for multiple myeloma, when data to assess a complete response were not available in eligible RRMM cohort, analyses were summarized for VGPR or better (≥VGPR) to avoid underestimating the response in the eligible RRMM cohort.

Of 1,949 real-world RRMM patients, 1,171 were refractory to their last treatment regimen at baseline. Patients who had exposure to any BCMA-directed therapy or gene-modified therapy were excluded. Of the 1,171 patients in the refractory RRMM cohort, 528 received the next line of therapy; 643 patients were excluded due to no new treatment due to death (n = 441) and no new treatment due to no follow-up (n = 202). Of the remaining 528 patients, 190 triple class exposed patients were selected as the eligible RRMM cohort based on the KarMMa eligibility criteria. The ORR in the KarMMa and eligible RRMM cohorts was 76% and 32% (p < 0.0001), respectively. The VGPR in the KarMMa and eligible RRMM cohorts was 57% and 14% (p < 0.0001), respectively. A matched-paired analysis was conducted and ORR was adjusted for matching. Results from the matched-paired analysis were consistent with the primary analysis; the ORR for the matched KarMMa cohort (n = 76–80) and matched eligible RRMM (n = 76–80) was 72% and 29% (p < 0.0001), respectively. According to the applicant, PFS was significantly improved in KarMMa vs the eligible RRMM cohort; median PFS was 11.3 months and 3.5 months in the KarMMa and Eligible RRMM cohorts, respectively (p < 0.0001). Median follow-up was 11.3 months (KarMMa) and 10.2 months (eligible RRMM cohort) at data cutoff. According to the applicant, OS was significantly improved in KarMMa vs the eligible RRMM cohort. OR was 18.2 months for the KarMMa cohort (across all target doses from 150–450 x 10⁶ CAR T-cells) and 14.7 months for the eligible RRMM cohort. The estimated 12-month probability of surviving was 80% in the KarMMa cohort and 56% in the eligible RRMM cohort. Median follow-up was 12.0 months (KarMMa) and 15.0 months (eligible RRMM cohort) among surviving patients at data cutoff. The applicant asserts that the results from the KarMMa–RW study confirm that there is no clear standard of care for RRMM patients who received at least 3 prior therapies, including IMiD agents, PIs, and anti-CD38 antibodies. Patients in the eligible RRMM cohort received 94 different treatment regimens as next-line therapy and according to the applicant, outcomes were sub-optimal with currently available therapies in the real-world RRMM patients. The applicant asserts that significantly improved outcomes were demonstrated with idecabtagene vicleucel treatment in the KarMMa cohort vs the similar real-
world population (eligible RRMM cohort). The applicant noted that the real world myeloma patient population is older (MM incidence is known to increase with age, with over 60 percent of all new cases occurring in adults aged 65+ years). The applicant asserts that results were consistent across subgroups including patients aged ≥65 years.

The applicant also provided a comparison of the efficacy of idecabtagene and Xpovio® from the STORM study and Blenrep from the DREAMM–2 study. STORM is a prospective, multicenter phase 2 study of Xpovio® and dexamethasone in patients with RRMM (n=122) in the 4L+ setting. The STORM trial served as the basis for regulatory approval in the US and demonstrated the clinical efficacy and safety of Xpovio®. The ORR was 26% for patients in the STORM study vs 73% for patients treated with idecabtagene vicleucel in the KarMMa study, CR was 1% for patients in the STORM study vs 33% for patients treated with idecabtagene vicleucel in the KarMMa study, medium duration of response (mDOR) was 4.4 months for patients in the STORM study vs 10.7 months for patients treated with idecabtagene vicleucel in the KarMMa study, and PFS was 3.7 months for patients in the STORM study vs 8.8 months for patients treated with idecabtagene vicleucel in the KarMMa study. The DREAMM–2 study is a prospective, multicenter Phase 2 study of Blenrep in patients with RRMM (n=122) in the 4L+ setting. The ORR was 31% for patients in the DREAMM–2 study vs 73% for patients treated with idecabtagene vicleucel in the KarMMa study, CR was 3% for patients in the DREAMM–2 study vs 30% for patients treated with idecabtagene vicleucel in the KarMMa study, medium duration of response (mDOR) was 6.6 months for patients treated with idecabtagene vicleucel in the KarMMa study, medium duration of response (mDOR) was not reached in the Blenrep group whereas it was 10.7 months for patients treated with idecabtagene vicleucel in the KarMMa study, and PFS was 2.9 months for patients in the DREAMM–2 study vs 8.8 months for patients treated with idecabtagene vicleucel in the KarMMa study.

Because idecabtagene vicleucel showed improved ORR, CR, medDOR and PFS when compared to Xpovio® and Blenrep, the applicant asserts that idecabtagene vicleucel provides a substantial clinical improvement over these existing therapies.

To support that idecabtagene vicleucel fills an unmet need as demonstrated by the patient population in its registrational study, the Phase 2 KarMMa study, the applicant asserts that in addition to showing deep and durable responses and a manageable safety profile in heavily pretreated, highly refractory RRMM patients in the context of controlled clinical studies, comparisons of outcomes in real world patients (that is, patients not enrolled in clinical trials) support the assertion that idecabtagene vicleucel provides meaningful improvement for RRMM compared with currently available therapies. The applicant asserts that when compared to myeloma patients generally included in clinical studies, the real world myeloma patient population is older (MM incidence is known to increase with age, with over 60 percent of all new cases occurring in adults aged 265 years) and sicker (due to the high proportion of elderly patients in this population, those with MM commonly also have additional comorbidities associated with increased age, including conditions such as osteoporosis, arthritis, diabetes, additional malignancies, cardiovascular disease, and renal dysfunction, amongst others). The applicant provided an abstract from the MAMMOTH study, a noninterventional, retrospective cohort analysis conducted to assess outcomes in patients after they become refractory to anti-CD38 monoclonal antibodies, including a subset of patients who were triple-class-exposed. Patients in STORM (analyzing Xpovio® plus dexamethasone) had an ORR of 32.8% versus 25% for patients receiving conventional care in MAMMOTH (p=0.078) and STORM patients had better OS than patients in MAMMOTH (median 10.4 vs 6.9 months) (p=0.043). The applicant asserts that these results highlight a high unmet need in a patient population refractory to anti-CD38 monoclonal antibody, including a subset of triple-class exposed patients.

To support the assertion that idecabtagene vicleucel improves quality of life for patients with RRMM, the applicant referenced idecabtagene vicleucel’s impact on Health-related Quality of Life (HRQoL) as assessed in the KarMMa study as a secondary endpoint. HRQoL was assessed using the European Organization for Research and Treatment of Cancer (EORTC) Quality of Life C30 Questionnaire (QLQ–C30) and the EORTC Multiple Myeloma Module (MY20). The QLQ–C30 consists of 30 questions addressing 5 functional domain scales, 3 symptom scales, a Global health/QoL scale, and 6 single item measures. The QLQ–MY20 consists of 20 questions addressing 4 myeloma-specific HRQoL domains (disease symptoms, side effects of treatment, future perspectives, and body image). Primary subscales of interest were QLQ–C30 Fatigue, Pain, Physical Functioning, Cognitive Functioning, and Global Health/QoL subscales and QLQ–MY20 Symptom and Side Effects subscales. Subscores were preselected based on their relevance to this patient population. The data are based on a minimum of 10 months post-infusion. Median follow-up durations at the target dose levels of 150, 300, and 450 × 10^6 CAR T-cells were 17.8, 13.9, and 9.7 months, respectively. Of 140 patients enrolled in KarMMa, 128 received idecabtagene vicleucel, of whom 121 (94.5%) and 120 (93.8%) were evaluable for HRQoL by QLQ–C30 and QLQ–MY20, respectively. At baseline, idecabtagene vicleucel treated patients had less favorable scores for all QLQ–C30 domains of interest (fatigue, pain, Global Health/QoL, physical functioning and cognitive functioning) than the general population. From baseline at multiple time points through month 9 post-infusion, the applicant asserts that clinically meaningful improvements were observed in QLQ–C30 Fatigue, Pain, Physical Functioning, and Global Health subscale scores relative to baseline, as the median baseline showed improvement in all domains. The applicant asserts that these results support that idecabtagene vicleucel provides meaningful improvements in HRQoL and self-reported symptoms associated with heavily pretreated RRMM and demonstrate that idecabtagene vicleucel provides meaningful improvement in both global function and symptoms related to MM.

After reviewing the information submitted by the applicant as part of its FY 2022 new technology add-on payment application for idecabtagene vicleucel, we question whether, due to the lack of randomization, there is sufficient evidence to establish the efficacy of idecabtagene vicleucel compared with current alternatives. It is unknown whether the superior...
outcomes for idecabtagene vicleucel in the KarMMA study, which has not been peer-reviewed, were due to more effective therapy or other factors, such as differences in patient population or treating oncologist. We also note that the applicant chose to use ORR data as a measure of substantial clinical improvement rather than the more clinically relevant and available OS data.

We are inviting public comment on whether idecabtagene vicleucel meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Add-on Payment Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for idecabtagene vicleucel.

i. INDIGO Aspiration System With Lightning Aspiration Tubing

Penumbra, Inc. submitted an application for the INDIGO® Aspiration System with Lightning Tubing (“INDIGO® with Lightning”) for FY 2022. Per the applicant, INDIGO® with Lightning is a mechanical thrombectomy aspiration system used in the treatment of pulmonary embolism, deep vein thrombosis and peripheral arterial thromboembolism that optimizes thrombus removal by differentiating between thrombus and blood.

According to the applicant, INDIGO® with Lightning performs clot detection and removal via smart technology which enables the physician to determine when the catheter is in thrombus and when it is in patent flow resulting in blood loss reduction through intermittent aspiration mechanical thrombectomy. The applicant stated that INDIGO® with Lightning is used for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems, and for the treatment of pulmonary embolism. The applicant stated that the INDIGO® with Lightning is composed of a mechanical thrombectomy aspiration pump (known as the Penumbra Engine) that is packaged with INDIGO® CAT12 (12 French) and CAT8 (8 French) catheters as well as Lightning, a clot detection/ blood loss reduction technology embedded in the Penumbra Engine pump and tubing.

Arterial thromboembolism can result in acute limb ischemia (ALI) which requires emergent treatment. Venous thromboembolism is a condition which includes both deep vein thrombosis (DVT) and pulmonary embolism (PE) and occurs in 1 to 2 individuals per 1000 per year and is predominantly a disease of older age.284 The 2020 American Society of Hematology guidelines for venous thromboembolism include recommendations for the treatment of patients with both pulmonary embolism and deep vein thrombosis, and recommended treatments include home care, systemic pharmacological thrombolysis, and procedural care.285

Procedural care may include open procedures as well as catheter-directed thrombolysis and percutaneous mechanical thrombectomy.286 In catheter-directed thrombolysis, a thrombolytic agent is infused intravascularly adjacent to the clot burden through a percutaneous trans catheter.287 In percutaneous mechanical thrombectomy, the thrombus is lysed or removed mechanically. The therapies may be used separately or in conjunction with one another.288

The applicant stated that mechanical thrombectomy may be performed with a variety of devices. These methods include aspiration thrombectomy, rheolytic thrombectomy, and fragmentation thrombectomy.289

The applicant stated that INDIGO® with Lightning differs from other mechanical thrombectomy devices on the basis of the use of a mechanical pump to generate a vacuum for aspiration and “intelligent aspiration” which differentiates clots and patient blood flow, thereby limiting blood loss. The applicant states that other endovascular mechanical thrombectomy devices do not provide aspiration using a vacuum. According to the applicant, the Lightning tubing performs clot detection using a proprietary algorithm. According to the applicant, once this “smart technology” detects free-flowing blood, it indicates patent flow to the physician and begins intermittent aspiration resulting in less blood loss during the procedure.

The applicant indicated that there is no unique ICD–10–PCS procedure code to describe the use of INDIGO® with Lightning. The applicant submitted a request for a unique ICD–10–PCS code to identify the technology beginning FY 2022.

INDIGO® with Lightning is a system with multiple components which have been reviewed by FDA both separately and as part of an overall system which includes catheter tubing, and a vacuum pump. For the catheter portion of the system, INDIGO® aspiration catheter 12 (12 French) and separator 12 received FDA 510(k) clearance on May 28, 2020 for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems under FDA submission number K192981. The applicant stated that they submitted an application for FDA 510(k) clearance for that same technology (with a predicate which received clearance previously under submission number K192981) for indication of pulmonary embolism under FDA submission number K202821 for which clearance was completed on November 18, 2020. The INDIGO® aspiration catheter 12 and separator 12 received FDA 510(k) clearance for the peripheral arterial and venous system on the basis of similarity to an earlier version of the same catheter and separator, which itself received FDA 510(k) clearance on May 26, 2015 under FDA 510(k) number K142870 as part of the Penumbra Embolectomy System for the same indication. We note that the overall system received a second 510(k) clearance on December 20, 2019 under FDA 510(k) number K192833 for the added indication of PE.

With respect to the newness criterion for the tubing, the Lightning tubing received FDA 510(k) authorization for the removal of fresh, soft emboli and thrombi from vessels of the peripheral arterial and venous systems on March 13, 2020 under FDA 510(k) number K143244. The same tubing received FDA 510(k) authorization for pulmonary embolism on April 22, 2020 under FDA
510(k) number K200771, which was granted based on substantial similarity to the same manufacturer’s device. The predicate device for the peripheral arterial and venous system was an earlier version of the tubing without Lightning which itself received FDA 510(k) authorization on May 3, 2018 under FDA 510(k) number K180939.

With respect to the newness criterion for the vacuum pump, the Penumbra Engine Pump and Canister received FDA 510(k) clearance for use in the peripheral arterial and venous systems (PAVS) on March 8, 2018 under FDA 510(k) number K180105. The following table summarizes the FDA approval information listed in this section.

<table>
<thead>
<tr>
<th>INDIGO® System</th>
<th>Indication</th>
<th>Reference Number</th>
<th>Date of Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDIGO® - Penumbra Embolectomy Aspiration System</td>
<td>PAVS</td>
<td>K142870</td>
<td>May 26, 2015</td>
</tr>
<tr>
<td>INDIGO® - Advanced 110 Aspiration Tubing</td>
<td>PAVS</td>
<td>K180939</td>
<td>May 3, 2018</td>
</tr>
<tr>
<td>INDIGO® - INDIGO Aspiration System</td>
<td>PE</td>
<td>K192833</td>
<td>December 20, 2019</td>
</tr>
<tr>
<td>INDIGO® - Penumbra ENGINE Pump and Canister</td>
<td>PAVS</td>
<td>K180105</td>
<td>March 8, 2018</td>
</tr>
<tr>
<td>INDIGO® - LIGHTNING Aspiration Tubing</td>
<td>PAVS</td>
<td>K193244</td>
<td>March 13, 2020</td>
</tr>
<tr>
<td>INDIGO® - LIGHTNING Aspiration Tubing</td>
<td>PE</td>
<td>K200771</td>
<td>April 22, 2020</td>
</tr>
<tr>
<td>INDIGO® – Aspiration Catheter 12 and Separator 12</td>
<td>PAVS</td>
<td>K192981</td>
<td>May 28, 2020</td>
</tr>
<tr>
<td>INDIGO® – Aspiration Catheter 12 and Separator 12</td>
<td>PE</td>
<td>K202821</td>
<td>November 18, 2020</td>
</tr>
</tbody>
</table>

The applicant has applied for new technology add-on payments for INDIGO® with Lightning when used for the treatment of venous thromboembolism, arterial thromboembolism, and pulmonary thromboembolism.

As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant stated that INDIGO® with Lightning does not use the same or a similar mechanism of action when compared to an existing technology to achieve a therapeutic outcome. The applicant described differences between INDIGO® with Lightning and existing technologies based on the use of a mechanical pump to generate a vacuum for aspiration and the Lightning tubing, which the applicant stated limits blood loss and indicates clot versus patent flow. For pulmonary embolism and the peripheral system, the applicant identified Inari Flowtweezer as an existing technology and noted that any aspiration provided using this system is provided via syringe as opposed to a vacuum pump. For the peripheral system, the applicant also identified Inari Flowtweezer as using the same syringe method of aspiration. The applicant also identified two additional aspiration thrombectomy catheters, Angiojet® and Angiovac®, used in the peripheral system and suggested that Angiojet® also uses a syringe for aspiration and that Angiovac® utilizes an extracorporeal bypass circuit that is created outside the body consisting of an outflow line, a centrifugal pump, a filter, and an inflow line.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that services provided using this device would be captured under MS–DRGs 163–165 and 270–272. MS–DRGs 163–165 address major chest procedures and MS–DRGs 270–272 address other major cardiovascular procedures.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population when compared to an existing technology, the applicant did not address this criterion directly in the application, but stated that the new use of the INDIGO® System with Lighting is for the most recent FDA indication (April 2020) in PE. The applicant further states that PE is not the same disease as arterial and venous thromboembolism; the patient populations may overlap, but are not identical.

We have the following concerns regarding whether the technology meets the substantial similarity criteria and whether it should be considered new. While the applicant discussed the differences between INDIGO® with Lightning and products made by other manufacturers, the applicant does not provide enough information regarding how INDIGO® with Lightning differs in its components from the existing aspiration thrombectomy catheters on the market to determine whether the technology uses a unique mechanism of action. We question whether the mechanism of action of the pump is different than that of the existing aspiration thrombectomy systems that also use a pump rather than a syringe, and how the mechanism of action of the separator, which is part of the catheter portion of the device, is different from that of existing thrombectomy systems that deploy a device through the lumen of the catheter to break up the thrombus. It is also unclear which mechanism of action is used within the “smart technology” and how it may differ from other products which are intended to similarly reduce blood loss during the procedure. It is unclear if the “smart technology” resides within the pump, which was cleared by FDA 510(k) on March 8, 2018, or within the tubing, which was most recently cleared by FDA 510(k) on April 22, 2020. We note that while the applicant did not directly address the third criterion within the application, based on the clinical uses of the device described in the application, we believe the INDIGO® with Lightning is intended for a patient population that is similar to the patient population treated by existing thrombectomy devices, including patients who receive percutaneous interventions for PE and peripheral arterial thromboembolism.

We note that the predicate device for the vacuum pump, the Penumbra Engine Pump and Canister, received FDA 510(k) clearance for use in the peripheral arterial and venous systems on March 8, 2018 under FDA 510(k) number K180105 and therefore appears to no longer be considered new. We further note that the catheter and tubing, as described in the 510(k) applications, appear to only have minor differences from their predicate devices such as length of tubing and shelf life, as opposed to elements that would affect the mechanism of action and thus determine that the catheter and tubing are substantially similar to the predicate...
devices cleared under FDA 510(k) numbers K142870 (May 26, 2015) and K180939 (May 3, 2018), respectively, the newness date of the INDIGO® with Lightning would correspond to the dates listed and therefore may no longer be considered new. We also note that it is unclear whether the components of the system may be substantially similar to the overall system and whether the applicable newness date for each indication would therefore be the date of the overall system clearance for each indication, specifically May 26, 2015 for peripheral arterial and venous systems and December 20, 2019 for pulmonary embolism.

We invite public comment on whether INDIGO® with Lightning is substantially similar to other technologies and whether INDIGO® with Lightning meets the newness criterion.

With regard to the cost criterion, the applicant searched the FY 2019 MedPAR claims data file with the FY 2019 Final Rule with Correction Notice IPPS Impact File to identify potential cases representing patients who may be eligible for treatment using the INDIGO® System. The applicant identified claims with any one of the following ICD–10–PCS codes for percutaneous mechanical thrombectomy:
In its analysis, the applicant identified a primary cohort to assess whether this therapy met the cost criterion. The previously listed ICD–10–PCS procedure codes were used to identify claims involving percutaneous procedures. The claim search conducted by the applicant resulted in 15,580 claims mapping to six MS–DRGs: 270 (Other Major Cardiovascular Procedures with MCC), 271 (Other Major Cardiovascular Procedures with CC), 272 (Other Major Cardiovascular Procedures without CC/MCC), 163 (Major Chest Procedures with MCC), 164 (Major Chest Procedures with CC), and 165 (Major Chest Procedures without CC/MCC). The applicant determined an average unstandardized case weighted charge per case of $126,211.

<table>
<thead>
<tr>
<th>Pulmonary Embolism</th>
</tr>
</thead>
<tbody>
<tr>
<td>02CP3ZZ Extirpation of matter from pulmonary trunk, percutaneous approach</td>
</tr>
<tr>
<td>02CQ3ZZ Extirpation of matter from right pulmonary artery, percutaneous approach</td>
</tr>
<tr>
<td>02CR3ZZ Extirpation of matter from left pulmonary artery, percutaneous approach</td>
</tr>
<tr>
<td>02CS3ZZ Extirpation of matter from right pulmonary vein, percutaneous approach</td>
</tr>
<tr>
<td>02CT3ZZ Extirpation of matter from left pulmonary vein, percutaneous approach</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deep Vein Thrombosis/Vascular</th>
</tr>
</thead>
<tbody>
<tr>
<td>04CC3Z6 Extirpation of matter from right common iliac artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CC3ZZ Extirpation of matter from right common iliac artery, percutaneous approach</td>
</tr>
<tr>
<td>04CD3Z6 Extirpation of matter from left common iliac artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CD3ZZ Extirpation of matter from left common iliac artery, percutaneous approach</td>
</tr>
<tr>
<td>04CE3Z6 Extirpation of matter from right internal iliac artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CE3ZZ Extirpation of matter from right internal iliac artery, percutaneous approach</td>
</tr>
<tr>
<td>04CF3Z6 Extirpation of matter from left internal iliac artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CF3ZZ Extirpation of matter from left internal iliac artery, percutaneous approach</td>
</tr>
<tr>
<td>04CH3Z6 Extirpation of matter from right external iliac artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CH3ZZ Extirpation of matter from right external iliac artery, percutaneous approach</td>
</tr>
<tr>
<td>04CJ3Z6 Extirpation of matter from left external iliac artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CJ3ZZ Extirpation of matter from left external iliac artery, percutaneous approach</td>
</tr>
<tr>
<td>04CK3Z6 Extirpation of matter from right femoral artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CK3ZZ Extirpation of matter from right femoral artery, percutaneous approach</td>
</tr>
<tr>
<td>04CL3Z6 Extirpation of matter from left femoral artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CL3ZZ Extirpation of matter from left femoral artery, percutaneous approach</td>
</tr>
<tr>
<td>04CM3Z6 Extirpation of matter from right popliteal artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CM3ZZ Extirpation of matter from right popliteal artery, percutaneous approach</td>
</tr>
<tr>
<td>04CN3Z6 Extirpation of matter from left popliteal artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CN3ZZ Extirpation of matter from left popliteal artery, percutaneous approach</td>
</tr>
<tr>
<td>04CP3Z6 Extirpation of matter from right anterior tibial artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CP3ZZ Extirpation of matter from right anterior tibial artery, percutaneous approach</td>
</tr>
<tr>
<td>04CQ3Z6 Extirpation of matter from left anterior tibial artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CQ3ZZ Extirpation of matter from left anterior tibial artery, percutaneous approach</td>
</tr>
<tr>
<td>04CR3Z6 Extirpation of matter from right posterior tibial artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CR3ZZ Extirpation of matter from right posterior tibial artery, percutaneous approach</td>
</tr>
<tr>
<td>04CS3Z6 Extirpation of matter from left posterior tibial artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CS3ZZ Extirpation of matter from left posterior tibial artery, percutaneous approach</td>
</tr>
<tr>
<td>04CT3Z6 Extirpation of matter from right peroneal artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CT3ZZ Extirpation of matter from right peroneal artery, percutaneous approach</td>
</tr>
<tr>
<td>04CU3Z6 Extirpation of matter from left peroneal artery, bifurcation, percutaneous approach</td>
</tr>
<tr>
<td>04CU3ZZ Extirpation of matter from left peroneal artery, percutaneous approach</td>
</tr>
<tr>
<td>06CC3ZZ Extirpation of matter from right common iliac vein, percutaneous approach</td>
</tr>
<tr>
<td>06CD3ZZ Extirpation of matter from left common iliac vein, percutaneous approach</td>
</tr>
<tr>
<td>06CF3ZZ Extirpation of matter from right external iliac vein, percutaneous approach</td>
</tr>
<tr>
<td>06CG3ZZ Extirpation of matter from left external iliac vein, percutaneous approach</td>
</tr>
<tr>
<td>06CM3ZZ Extirpation of matter from right femoral vein, percutaneous approach</td>
</tr>
<tr>
<td>06CN3ZZ Extirpation of matter from left femoral vein, percutaneous approach</td>
</tr>
</tbody>
</table>
The applicant did not remove charges for prior technology. The applicant stated that no prior technology is being replaced. The applicant then standardized the charges using the FY 2019 Final Rule with Correction Notice Impact File. Next, the applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges (1.13218). To calculate the charges for the new technology, the applicant used what it stated was the national average CCR for the Supplies and Equipment cost center of 0.299 from the FY 2021 IPPS final rule. However, we note that the actual value for this cost center for FY 2021 was 0.297. The applicant calculated a final inflated average case-weighted standardized charge per case of $180,036, which exceeded the average case-weighted threshold amount of $126,211 by $53,825. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

We invite public comment on whether INDIGO® with Lightning meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that the INDIGO® with Lightning represents a substantial clinical improvement over existing technologies because it results in lower rates of aspirated blood loss during the procedure, low major bleeding event rate, reduces blood loss, reduces ICU stays, and reduces procedure time. The applicant also suggested that the technology allows for revascularization without thrombolitics and no recurrence of pulmonary embolism after 30 days.

To support its application, the applicant submitted a reference to the EXTRACT–PE prospective, single-arm study across 22 sites comparing the use of INDIGO® without Lightning to systemic thrombolysis in 119 patients with PE who had not been previously treated with anti-thrombolytics or an adjunctive device within 48 hours. The applicant stated that this study was completed under FDA Investigational Device Exception (IDE) G1700664. The applicant claimed that the EXTRACT–PE study showed the INDIGO® without Lightning led to a significant mean reduction of 0.43 in right ventricle/left ventricle (RV/LV) ratio (a measure associated with poor clinical outcomes when greater than 1) that corresponded to a 27.3 percent reduction at 48 hours after intervention. They also cited a low major adverse event composite rate of 1.7 percent within 48 hours, device usage of only 37 minutes and median ICU length of stay of 1 day. According to the applicant, rates of cardiac injury, pulmonary vascular injury, clinical deterioration, major bleeding, and device-related death at 48 hours were 0%, 1.7%, 1.7%, 1.7%, and 0.8%, respectively.

The applicant cited a poster of an unpublished retrospective case review study by Hastings 290 of 18 patients with DVT treated with INDIGO® followed by anticoagulation. Primary technical success (defined as restoration of blood flow with minimal residual thrombus (<10%) without the need for a second session of treatment) was achieved in 15 patients. Three patients required adjunctive methods for successful clearance of thrombus, undergoing two sessions of treatment. Two patients had recurrence of DVT following single-session treatment, both of whom were asymptomatic at time of diagnosis.

The applicant cited the PRISM study.291 a single-arm, multicenter, retrospective analysis of 79 patients with arterial occlusion from 2018, to provide evidence that use of INDIGO® with Lightning has a low major bleeding event rate, can result in revascularization without thrombolytics, and causes no clinically significant distal embolization. The applicant also stated that the interim results of the INDIAN study, a prospective trial using INDIGO® without Lightning to treat patients with ALI showed no device-related adverse events or major bleeding complications.292

The applicant asserted that an unpublished laboratory bench test using water found that the 20.3 mL/sec average flow rate of catheter with Lightning generates 18-fold reduction in blood loss when compared to the use of the same catheter and Penumbra engine pump without the Lightning technology. The applicant asserted that a bench test showed that the Penumbra aspiration pump demonstrates continuous pressure, as evidenced by a sustained -29 inHg (inches of Mercury) through 60 seconds versus a 60-mL syringe which starts at -27 Hg and drops to 0 in Hg within 18 seconds.

The applicant also asserted that an abstract of a single-center retrospective case-control trial of 38 patients by Muck, P., et al. comparing two versions of INDIGO® catheters (12F and 8F) showed that median blood loss was 250mL in the larger Lightning 12F arm (n=9, larger catheter) and 375mL in the 8F arm without Lightning (n=27, smaller catheter). Technical success (defined as greater than 70 percent thrombus reduction) was achieved in 77 percent of patients in the Lightning 12F arm compared to 18.5 percent in the 8F arm without Lightning. The applicant also asserted that this study showed that none (0/9) of the patients in the INDIGO® with Lightning group required post-procedure transfusion, whereas 18.5 percent (5/27) of the INDIGO® without Lightning group required post-procedure transfusion.

We note that in its application, the applicant did not explicitly state what the comparator was for each of its claims in support of substantial clinical improvement; for example, whether INDIGO® is being compared to systemic thrombolysis, percutaneous catheter directed thrombolysis, or other aspiration thrombectomy catheters. Comparing INDIGO® to a medical treatment modality may not be appropriate since percutaneous interventions for PE and DVT have different clinical indications, risks, and benefits compared to medical or surgical interventions.

We also note that the applicant relies mostly on studies of INDIGO® without Lightning to substantiate its claims regarding INDIGO® with Lightning. Of all the studies provided by the applicant, only one small, unpublished study of DVT patients by Muck, P., et al. includes patients treated with INDIGO® with Lightning (which has the intelligent aspiration) versus earlier versions of the applicant’s device. The applicant did not demonstrate superior outcomes using INDIGO® with Lightning compared to INDIGO® without Lightning.

We note that outcomes for INDIGO® for the rates of pulmonary vascular injury at 48 hours, clinical deterioration, major bleeding and device-related deaths were stated by the applicant as low compared to systemic thrombolysis, but were not compared to outcomes for existing aspiration thrombectomy devices which may be a more appropriate comparator. We further note that in the poster study, all patients were maintained on oral anticoagulation following thrombectomy with INDIGO®, so it is difficult to assess the DVT

---

recurrence rate (using INDIGO® alone) to support the claim that INDIGO® can be used with patients with high risk of bleeding.

We also note that suction generated through a vacuum may not be superior to other mechanisms of generating negative pressure used in other existing aspiration catheters. A study comparing suction forces and vacuum pressure of Penumbra pump to a 60-mL syringe and pumps manufactured by several other manufacturers showed that all catheters transmit similar vacuum pressure regardless of pump or 60-mL syringe.293

Finally, we question whether there is enough evidence to support that “intelligent aspiration” associated with INDIGO with Lightning provides a substantial clinical improvement over existing aspiration catheters from INDIGO® and existing devices where the aspiration is controlled manually. No direct comparison of blood loss between INDIGO® with Lightning catheter and existing aspiration thrombectomy devices from other manufacturers was provided.

specifically catheters that reduce blood loss by returning the aspirated blood back to the patient. The unpublished bench test included with the application may have demonstrated a reduction in average volume of water aspirated using the INDIGO® Catheter with Lightning fully functional compared to the INDIGO® catheter with Lightning deactivated (valve pin fixed to the open position). However, this study was not designed to compare blood loss during a thrombectomy procedure between aspiration controlled by a human versus by the Lightning “intelligent aspiration.”

We invite public comment on whether INDIGO® with Lightning meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for INDIGO® with Lightning or at the New Technology Town Hall meeting.

j. Ischemia Care Respiratory and Stroke Test Kit or ISC–REST

Ischemia Care submitted an application for new technology add-on payment for Ischemia Care Respiratory and Stroke Test Kit (ISC–REST) for FY 2022. Per the applicant, ISC–REST is a test kit composed of three tests to stratify the cause of ischemic strokes by differentiating those that originate in the heart, called cardioembolic (CE) strokes, and those that originate in the arteries, called large artery atherosclerotic (LA) strokes, once it has been determined that a patient has not suffered a hemorrhagic stroke. According to the applicant, ISC–REST is made up of three tests: (1) ISCDx, (2) the QIAstat-Dx Respiratory SARS-CoV-2 Panel, and (3) the QIAGEN Access Anti-SARS-CoV-2 Total Test. According to the applicant, the three test results provide information related to the cause of ischemic stroke and coronavirus disease 2019 (COVID–19) status to prevent a recurrent stroke. Per the applicant, the first of the three tests, ISCDx, is a blood test that uses RNA expression from whole blood to differentiate between CE and LA stroke, two types of ischemic stroke. According to the applicant, once blood is drawn, the RNA expression in the blood sample is analyzed and matched to the gene expression signatures and patterns associated with CE stroke and LA stroke. Per the applicant, the second test, the QIAstat-DX respiratory SARS-CoV-2 Panel, is a multiplexed nucleic acid real-time polymerase chain reaction (PCR) test intended for the qualitative detection and differentiation of nucleic acid from 22 respiratory pathogens, including the SARS-CoV-2 virus, in nasopharyngeal swabs. According to the applicant, the third test is the QIAGEN Access Anti-SARS-CoV-2 Total Test, a rapid, digital lateral flow serological test to detect antibodies to SARS-CoV-2 in human serum and plasma.

According to the applicant, the ISC–REST kit is intended to be used when a patient presents at the hospital with an ischemic stroke, within 30 hours of symptom onset and with a National Institutes of Health Stroke Scale (NIHSS) score of 25. The NIHSS measures stroke-related neurologic deficit and has predictive validity for long-term stroke outcome.294 Per the applicant, the ISC–REST kit is intended for use at the time of the standard evaluation, at the same time that normal blood samples are collected when a patient is admitted to the hospital for stroke. According to the applicant, to use the ISC–REST kit, blood is drawn into a PaxGene tube (for the ISCDx test), a nasal swab is obtained (for the QIAstat-Dx Respiratory SARS-CoV-2 Panel), and an additional blood sample


is drawn (for the QIAGEN Access Anti-SARS-CoV-2 Total Test). Per the applicant, the hospital sends all three samples to a single laboratory, the Clinical Laboratory Improvement Amendments (CLIA) certified Ischemia Care laboratory, for processing and reporting. According to the applicant, three results are reported: (1) A result for whether the gene expression in the blood sample was consistent with CE stroke or LA stroke, (2) a result for respiratory screening that includes COVID–19, influenza, and other respiratory illnesses, and (3) a result for COVID–19 antibodies to determine whether the patient previously had COVID–19.

According to the applicant, the number of cryptogenic ischemic strokes, or ischemic strokes where the cause is unknown, is concerning. The applicant states that there are 695,000 ischemic strokes each year in the United States, with 185,000 of these events being recurrent strokes. Per the applicant, for up to 40% of ischemic strokes, or roughly 250,000 ischemic strokes, the cause is cryptogenic.295 The applicant states that when the cause of stroke is identified, secondary stroke prevention protocols may be adapted to prevent a bigger, more costly, and severe recurrent stroke. The applicant explains that cryptogenic stroke leads to high recurrence risk in cases of undetected atrial fibrillation. The applicant also explains that typically the diagnosis of the causes of stroke is complex, inconsistent across hospitals, expensive, and inconclusive. Further, the applicant claims that the cryptogenic rate is higher for stroke patients with COVID–19 than stroke patients without COVID–19, citing a retrospective study of patients hospitalized at a major New York health system between March and April 2020 that found that the cryptogenic rate was 65% for COVID–19 positive patients.296 In that study, out of 3,556 patients that were hospitalized and diagnosed with COVID–19 during that time, 32 patients or under 1% of the sample size experienced an ischemic stroke. The study found that the standard stroke diagnostic workup did not establish the ischemic stroke etiology for a significant proportion of patients in the study with concurrent


COVID–19 infection and ischemic stroke: cryptogenic stroke diagnosis was twice more prevalent in COVID–19–positive patients (65.6%), compared with both COVID–19–negative contemporary stroke patients (30.4%) and ischemic stroke patients hospitalized in the same hospital system during the same time period the year prior (25.0%).

While the applicant states in the application that there is no standard of care pathway to determine the cause of stroke, a stroke patient presenting at the hospital is typically evaluated using a standard evaluation that includes imaging and hematologic testing to determine if the patient is a candidate for intervention. Diagnosing the cause of stroke, per the applicant, often requires expensive testing, risk to the patient, and invasive procedures, without a guarantee of a definitive diagnosis. The applicant explains that each suspected cause requires a focused workup to confirm the suspicion. Additionally, the applicant points out, a negative result in one pathway does not mean a positive result in another pathway. The applicant claims that the inability to accurately stratify patients by cause of stroke often results in either limiting use of advanced patient testing or performing too many tests. The applicant further claims that diagnosing the cause of stroke and preventing recurrent stroke using a standard evaluation is even more challenging for ischemic stroke patients with COVID–19 because these patients are presenting at younger ages and without traditional comorbidities, eliminating many of the traditional causes of stroke.

While the applicant states that it is unclear to clinicians whether COVID–19 is a separate cause of stroke or aggravates comorbidities to cause a stroke, the applicant claims that the information that the ISC–REST kit would provide is important, as clinicians currently know very little about the vascular effects of COVID–19. The applicant states that the ISC–REST kit is the only tool that links clinical diagnosis, pieces together: Respiratory viral and bacterial organism presence, COVID–19 antibody presence, and CE or LA stroke. Per the applicant, this combined testing is convenient for the clinician and also raises awareness about the COVID–stroke connection by providing real world evidence.297,298 Additionally, the applicant explains that traditional diagnosis of ischemic stroke cause is often complex, inconsistent, expensive, inconclusive and may require more invasive diagnosis procedures, such as implantable cardiac monitoring or transcranial doppler. Ultimately, according to the applicant, the traditional process to stratify the cause of stroke may require months or years of additional tests post event.

With respect to the newness criterion, each of the three tests in ISC–REST, as well as the ISC–REST test kit as a whole, have varying FDA authorization statuses and separate indications. The applicant stated in their application that they are seeking Emergency Use Authorization (EUA) from the FDA for the ISC–REST test kit. The applicant shared that the intended indication of ISC–REST is to provide three critical diagnostic tests in the same kit for convenience of the user during the COVID–19 public health emergency. For the ISC–REST test, the applicant stated that the test had completed the requirements of the Clinical Laboratories Improvement Amendments (CLIA) analytical validations and is available as a Laboratory Developed Test. ISCDx’s intended indication is to aid in the diagnosis of CE and LA stroke, when hemorrhagic stroke is ruled out, in conjunction with standard clinical evaluation and in the context of the patient’s clinical history and other diagnostic test results. The test could also be used as part of the clinical evaluation and patient risk assessment. The QIAsat-Dx Respiratory SARS–CoV–2 Panel was granted an EUA on March 30, 2020 and is intended for patients suspected of COVID–19 by their healthcare provider for the detection and differentiation of nucleic acid from SARS–CoV–2 and the following organism types and subtypes: Adenovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, SARS–CoV–2, Human Metapneumovirus A+B, Influenza A, Influenza A H1, Influenza A H3, Influenza A H1N1/pdm09, Influenza B, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Rhino virus/Enterovirus, Respiratory Syncytial Virus A+B, Bordetella pertussis, Chlamydiaphila pneumonia, and Mycoplasma pneumoniae. The applicant states that results are for the identification of SARS–CoV–2 RNA, however, negative results do not preclude SARS–CoV–2 infection and should not be used as the sole basis for patient treatment decisions. According to the applicant, there is no EUA request pending approval for the QIAGEN Access Anti-SARS–CoV–2 Total Test.

The applicant stated that there are currently no ICD–10–PCS procedure codes that uniquely identify the use of ISC–REST. The applicant submitted a request for approval of a unique ICD–10–PCS procedure code to identify use of the technology beginning FY 2022. The applicant provided 81 ICD–10–PCS codes that they stated could be used to identify cases involving the use of ISC–REST in the interim. These 81 ICD–10–CM diagnosis codes are associated with cerebral infarctions, occlusions, and other neurological conditions consistent with ischemic stroke presentations.

As previously discussed, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, per the applicant, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, according to the applicant, there are no blood tests for stroke or its causes. The applicant also stated that there is no blood testing for the cause of stroke combined with COVID–19 screening.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG when compared to an existing technology, the applicant stated that the ISC–REST kit is not replacing an existing technology and reiterated that ISCDx is a blood test that stratifies ischemic stroke patients into CE and LA stroke causes. The applicant stated that the technology would map to MS–DRGs 061,062,063,064,065,066,067,068 and that it is not requesting for ISC–REST to map to a new or different MS–DRG for FY 2022.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant stated that there are no existing technologies to stratify stroke populations by cause.

We note the following concerns regarding whether the applicant meets the newness criterion. Under the regulations at 42 CFR 412.87(e)(2), CMS only considers, for add-on payments for a particular fiscal year, an application for which the new technology has received FDA marketing authorization by July 1 prior to the particular fiscal year. While the applicant stated that ISCDx, one of the three tests in ISC–REST test kit, has completed all of the requirements of the Clinical Laboratories Improvement

Amendments, we note that this is not considered FDA marketing authorization as required in our regulations for the new technology add-on payment.\footnote{299} In the FY 2009 IPPS final rule (73 FR 48561 through 48563), we revised our regulations at § 412.87 to codify our longstanding practice of how CMS evaluates the eligibility criteria for new medical service or technology add-on payment applications. We stated that new technologies that have not received FDA approval do not meet the newness criterion. In addition, we stated we do not believe it is appropriate for CMS to determine whether a medical service or technology represents a substantial clinical improvement over existing technologies before the FDA makes a determination as to whether the medical service or technology is safe and effective. For these reasons, we first determine whether a new technology meets the newness criterion, and only if so, do we make a determination as to whether the technology meets the cost threshold and represents a substantial clinical improvement over existing medical services or technologies. We also finalized at 42 CFR 412.87(c) (subsequently redesignated as 412.87(e)) that all applicants for new technology add-on payments must have FDA approval or clearance by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered.

In the FY 2021 IPPS/LTCH PPS final rule, to more precisely describe the various types of FDA approvals, clearances, licensures, and classifications that we consider under our new technology add-on payment policy, we finalized a technical clarification to § 412.87(e)(2) to indicate that new technologies must receive FDA marketing authorization (for example, pre-market approval (PMA); 510(k) clearance; the granting of a De Novo classification request; approval of a New Drug Application (NDA); or Biologics License Application (BLA) licensure) by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. As noted in the FY 2021 IPPS/LTCH PPS final rule, this technical clarification did not change our longstanding policy for evaluating whether a technology is eligible for new technology add-on payment for a given fiscal year, and we continue to consider FDA marketing authorization as representing that a product has received FDA approval or clearance for purposes of eligibility for the new technology add-on payment under § 412.87(e)(2) (85 FR 58742).

As previously summarized, the applicant is seeking an EUA from the FDA for the ISC–REST test kit. An EUA by the FDA allows a product to be used for emergency use, but under our longstanding policy, we believe it would not be considered an FDA marketing authorization for the purpose of new technology add-on payments, as a product that is available only through an EUA is not considered to have an FDA approval or clearance. Therefore, under the current regulations at 42 CFR 412.87(e)(2) and consistent with our longstanding policy of not considering eligibility for new technology add-on payments prior to a product receiving FDA approval or clearance, we believe a product available only through an EUA would not be eligible for new technology add-on payments.

We also refer the reader to our comment solicitation in section II.F.7 of the preamble of this proposed rule regarding how data reflecting the costs of a product with an EUA, which may become available upon authorization of the product for emergency use (but prior to FDA approval or clearance), should be considered for purposes of the 2-year to 3-year period of newness for new technology add-on payments for a product with or expected to receive an EUA, including whether the newness period should begin with the date of the EUA.

Additionally, we are uncertain whether the mechanism of action of ISC–REST can be considered new. While the applicant claims that there is currently no other blood test available that identifies the cause of ischemic stroke through RNA biomarkers, we note that clinicians may order blood tests as part of the stroke consultation to gather information about stroke risk factors and other medical problems which may have caused the stroke.\footnote{300 Mayo Clinic Staff, Stroke Diagnosis, Feb. 9, 2021, https://www.mayoclinic.org/diseases-conditions/stroke/diagnosis-treatment/drc-20350119.} In addition, we note that there are several types of RNA biomarker tests for stroke that have been developed and used in other settings, and we therefore note that this may not represent a new mechanism of action for ISC–REST. Similarly, we are not certain whether the QIAstat-Dx Respiratory SARS–CoV–2 Panel and QIAGEN Access Anti-SARS–CoV–2 Total Test components of ISC–REST have unique mechanisms of action, as they may be similar to other PCR nasal swabs and serology tests for COVID–19 that are currently in use during the COVID–19 public health emergency.

We welcome public comment regarding whether ISC–REST has a unique mechanism of action even if some or all of its test components do not have unique mechanisms of action individually. Because ISC–REST delivers three separate test results through three separate tests, it is unclear whether the combination of the tests in one kit could be viewed as representing a unique mechanism of action over and above the mechanisms of action of the tests if they were to be performed separately.

With regard to whether the technology maps to the same or different MS–DRGs as existing technologies, though the applicant did not state whether it believes the technology meets this criterion, we believe that under the proposed indication for ISCDx, ISC–REST would not be used until a patient had a confirmed ischemic stroke. Therefore, under the proposed indication, it seems that the technology would map to the same MS–DRGs as cases involving the standard of care for ischemic stroke and cerebral infarction. However, it appears that there may be scenarios where a patient has an occlusion or some other neurological condition that makes the patient present with stroke-like symptoms, without having had a stroke or infarction. We invite comments on whether, for this reason, cases involving the use of the technology may be assigned to the same or different MS–DRGs as cases not only involving the standard of care for ischemic stroke and cerebral infarction, but also nonspecific cerebrovascular accidents and precerebral occlusions.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, we note the applicant’s statement that there are no existing technologies to stratify stroke populations by cause does not address whether the technology meets this criterion. CMS requests comments on whether ISC–REST kit would be used as a diagnostic aid in the treatment of similar diseases and patient populations as the current standard-of-care ischemic stroke diagnosis evaluation.

We are inviting public comments on whether ISC–REST is substantially similar to other currently available therapies and/or technologies and whether this technology meets the newness criterion.

With regard to the cost criterion, the applicant provided the following analysis. The applicant used claims data from one hospital system, made up of

\footnote{299 42 CFR 412.87(e)(2).}
three hospitals with a total of 87 health care providers. The average percentage of patients across the three hospitals with Medicare or Medicare Advantage coverage was 69%, per the applicant. The applicant stated that raw data was provided from January 2020 through September 2020, then annualized for 2020. Per the applicant, the average standardized charges were calculated per MS–DRG by the hospital system that provided the data.

As mentioned previously, the applicant stated that the technology would map to the following MS–DRGs: MS–DRG 061 (Ischemic Stroke, Precerebral Occlusion or Transient Ischemia with Thrombolytic Agent with MCC), 062 (Ischemic Stroke, Precerebral Occlusion or Transient Ischemia with Thrombolytic Agent with CC), 063 (Ischemic Stroke, Precerebral Occlusion or Transient Ischemia with Thrombolytic Agent without CC/MCC), 064 (Intracranial Hemorrhage Or Cerebral Infarction with MCC), 065 (Intracranial Hemorrhage or Cerebral Infarction with CC or TPA in 24 Hours), 066 (Intracranial Hemorrhage or Cerebral Infarction without CC/MCC), 067 (Nonspecific CVA And Precerebral Occlusion without Infarction with MCC), and 068 (Nonspecific CVA And Precerebral Occlusion Without Infarction Without MCC). The applicant’s data included a total of 385 cases mapping to those MS–DRGs. The applicant did not submit claims data for two of the listed MS–DRGs, MS–DRG 063 and 067, because the data source that the laboratory services did not have any cases under those MS–DRGs for the time period that the sample data was collected. The applicant imputed 11 claims for two other MS–DRGs, 061 and 068, because there were fewer than 11 claims submitted for these MS–DRGs.

The applicant stated that it compared the distribution of MS–DRGs in the hospital data to the distribution of MS–DRGs in the FY 2022 New Technology Add-On Payment thresholds, which includes the number of cases per MS–DRG. The applicant asserted that because the MS–DRG distributions were highly similar, the data sample obtained from the hospital system was representative of the distribution of MS–DRGs nationally.

The applicant did not remove charges for a prior technology because, as the applicant noted, ISC–REST is not replacing any other technology. The applicant then applied the one-year charge inflation factor of 1.06353 included in the FY 2021 IPPS/LTCH PPS proposed rule (85 FR 59039) to inflate the charges from FY 2020 to FY 2021. To add charges for the new technology, the applicant multiplied the cost of ISC–REST by the cost-to-charge ratio for acute care hospitals found in the FY 2020 IPPS/LTCH PPS final rule. The applicant explained that the urban and rural hospital cost-to-charge ratios were combined to yield a national average of 0.3095. However, we note that the applicant appears to have used the cost-to-charge ratios in Table 8A, which lists the statewide average operating cost-to-charge ratios for acute care hospitals.

The applicant calculated a final inflated average case-weighted standardized charge per case of $87,842 which exceeds the average case-weighted threshold amount, $57,110. The applicant contended that ISC–REST meets the cost criterion based on these analyses.

We have the following concerns regarding the cost criterion. It is not clear whether the applicant’s use of private data from three hospitals is representative of the Medicare population. While the applicant states that the average Medicare and Medicare Advantage percentage of patients across the 3 hospitals was 69%, CMS is unsure whether the claims under the MS–DRGs the applicant provided are for Medicare patients, or private insurance patients in those hospitals. Similarly, because the applicant annualized data from the months of January to September 2020, it is not clear whether the portion of time selected by the applicant is representative of the entire year. Additionally, while the applicant points to the fact that the sample of claims data from the 3 hospitals had similar MS–DRG distributions as the FY 2022 New Technology Add-on Payment Thresholds, it is not clear whether this would indicate that the charging practices of the hospitals or their patient costs are similar to Medicare claims data nationally. It is also not clear whether the applicant’s cost analysis is representative of the cost of the technology as the applicant did not use the applicable cost-to-charge ratio of 0.107 for laboratory services as provided in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601). Finally, we note that it is not possible for CMS to verify the claims data submitted, as the applicant used hospital claims data that is not publicly available and did not identify the source. We are inviting public comments on whether ISC–REST meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that ISC–REST represents substantial clinical improvement over existing technologies for several reasons. First, the applicant asserts that ISC–REST has the ability to stratify ischemic stroke patients early in the diagnosis process to reduce the number of cryptogenic stroke diagnoses, which leads to appropriate medical management that can better reduce the risk of a recurrent stroke. Second, the applicant asserts that ISC–REST will lead to appropriate utilization of subsequent diagnostic testing, to determine stroke etiology, including: Implantable cardiac monitoring, hypercoagulation panels, magnetic resonance angiography, and other commonly used tests for ischemic stroke. Third, the applicant asserts that use of ISC–REST will lead to a reduction in at least one clinically significant adverse event, a recurrent stroke, including a reduction in mortality or a clinically significant complication. Fourth, the applicant further asserts that use of ISC–REST will result in a decreased use of, or more appropriate utilization of, therapeutic intervention, in cases where patients are medically managed for a comorbidity and a stroke occurs. Fifth, the applicant asserts that use of ISC–REST will result in a decreased number of future hospitalizations by reducing recurrent stroke risk and physician visits, as in some cases ISC–REST will result in a diagnosis pathway that will not require surgical or invasive procedures. Additionally, once ISC–REST identifies the cause of the stroke, the applicant asserts that the opportunity to manage a chronic population may include telemedicine approach, rather than in-person physician visits. Finally, the applicant asserts that ISC–REST will result in improved quality of life by helping avoid a recurrent stroke. The applicant submitted five information sources to address the substantial clinical improvement criterion, as well as supplementary information in the application itself and additional narrative responses. First, the applicant submitted a poster presentation by Jauch E.C., on the results and methods of the Implanted cardiac monitoring, Biomarkers of Acute Stroke Etiology (BASE) study to determine whether RNA expression can accurately differentiate LA stroke from CE stroke in the acute setting.301 Similarly, the applicant submitted an unpublished manuscript detailing another BASE study on stroke biomarkers to determine...
if the etiology of acute ischemic stroke could be objectively determined by RNA expression using BASE blood samples. Third, the applicant submitted a published study methodology paper by Jauch et al., on the methodology of an ongoing (at the time of publication) BASE study to identify serum markers defining the etiology of acute ischemic stroke. The fourth information source, by Jickling et al., was a published article from 2010 on a study to design genetic probes for ischemic stroke. The fifth and final information source submitted was a 2016 journal article by Jeffrey L. Saver, with background information on etiologies of stroke.

The first three information sources all describe the BASE trial (NCT02014896), a prospective, multicenter, observational, convenience, sample cohort study of patients presenting to the hospital within 24 hours of stroke onset, which looked to determine if the etiology of acute ischemic stroke can be objectively determined by RNA expression from patient blood samples. The primary objective of the BASE study was to confirm the diagnostic accuracy of the ISCDx test to identify stroke subtypes in patients with acute ischemic stroke. According to the BASE Study Methodology paper by Jauch et al., while enrollment for this multisite study was ongoing at the time of publication, it was expected to hit 1000 patients by March 2017. The Base Study Methodology paper explains that blood samples were first collected from patients presenting to the hospital within 24 hours of stroke onset, and then again collected 24 hours and 48 hours later. The tubes were kept at room temperature for up to 24 hours and then frozen — 20°C until shipped to the Ischemia Care CLIA laboratory where the ISCDx testing was performed. From these blood samples, RNA gene expression was utilized to identify stroke etiology marker candidates. Patients who met the inclusion criteria: (1) Had experienced a suspected acute ischemic stroke within 24(+/-6) hours of symptom onset; (2) had a normal baseline CT, without hemorrhage or alternate explanation for symptoms; (3) were older than 18 years old; and (4) gave informed consent. Control samples consisted of 100 non-stroke Emergency Department patients matched on clinical risk factors of age, race, gender, smoking history, diabetes, hypertension, atrial fibrillation, and hyperlipidemia. We note that there are changes from the previously stated study methodology in the two sources the applicant included with BASE study results. For example, while the study methodology as described in the Jauch et al. paper stated that the blood samples were kept at room temperature for up to 24 hours and then frozen, in the poster presentation by Jauch, E.C., the samples were frozen within 72 hours of collection.

The applicant describes a set of study results, which are detailed in the unpublished manuscript by Peacock et al. and the poster presentation by Jauch, E.C. These analyses used adjudicated stroke diagnoses, classified as CE and LA, and determined by two board-certified neurologists blinded to each other’s diagnosis and biomarker results. The 218 patients enrolled were randomly assigned to a derivation cohort (70%) or validation cohort (30%). Using the derivation set gene expression levels, a signature was created to distinguish between CE and LA ischemic stroke, with the derived model then applied to the validation cohort. 59% of the participants in the study were male with a median age of 70.7 years. The median time from symptom onset to blood collection was 1200 minutes (ranging from 448 to 1568 minutes). The applicant explains that, of the 218 patients enrolled with an NIHSS>5, 149 were adjudicated as CE and 69 were adjudicated as LA. Additionally, sample analysis of the derivation cohort resulted in 9,513 unique gene-variant probe-sets for signature inclusion, with the best set containing 45 genes. The diagnostic gene signature results in the early validation cohort distinguished CE stroke from LA stroke with a C-statistic of 0.78 (0.50–1.0, 95% CI), sensitivity of 0.90 and specificity of 0.70. The study concluded that RNA expression accurately identifies stroke etiology.

The applicant also provided the following supplemental information to support that combining three tests in the proposed ISC–REST kit improves patient outcomes over performing the lab tests separately. Though the applicant noted that there is no direct evidence currently available regarding the impact of using the ISC–REST kit, they explain that, in their experience, clinical supporters of the ISC–REST kit claim that they would order ISC–REST kit testing 100% of the time versus ordering three separate tests. The applicant claims that there is a convenience, cost effectiveness, and time savings associated with ISC–REST during a time when hospital resources are limited. Second, the applicant states that because the QIAstat-Dx Respiratory SARS–CoV–2 Panel tests for COVID–19 as well as 12 other common respiratory illnesses, in testing for several respiratory illnesses, ISC–REST may inform care decisions. Third, the applicants states that collecting the samples for each test together and testing them in the same laboratory will ensure high levels of quality control. The applicant also claims that using the ISC–REST test kit has positive benefits, including the ability to help track and study how long the COVID–19 antibodies last in a chronic population based upon consistent measurement of the index events (stroke and COVID–19). Finally, the applicant states that the ISC–REST kit and adoption of guideline-directed appropriate care will result in prevention of recurrent strokes because it will impact clinician choice of therapeutics.
following concerns with regard to the substantial clinical improvement criterion.

We note that all of the BASE study results that the applicant submitted provide information on the ISCDx test on its own rather than the ISC–REST test kit, for which the applicant has submitted an application for new technology add-on payment consideration.316 317 As stated in the BASE Study methodology paper by Jauch, et al., the primary objective of the BASE study is to confirm the diagnostic accuracy of the ISCDx test to identify stroke subtypes in patients with acute ischemic stroke.318 No data were provided with regard to the complete ISC–REST kit, the other components individually, or any combination. We are therefore unclear as to whether it is possible to draw conclusions about substantial clinical improvement for the ISC–REST kit using the limited data provided on the ISCDx test and without any data or studies on the ISC–REST kit. Specifically, the applicant did not submit data or studies on how treatment decisions are impacted after the ISC–REST kit is used or if there is any impact on patient outcomes as a result of using the technology. While the applicant has made claims regarding reducing downstream diagnostic tests and avoiding inappropriate medical intervention by using the ISC–REST kit, it did not provide any studies or data regarding these claims. The applicant also made claims as to how the individual parts of the test impact care decisions, but similarly did not provide data to demonstrate this. For example, the applicant claimed that, in testing for several respiratory illnesses, the QIAStat-Dx Respiratory SARS–CoV–2 Panel will inform care decisions, but did not submit any evidence that this is the case. We also note that, because the applicant has not submitted evidence to demonstrate the utility of the ISC–REST kit, it seems that the additional tests outside of the ISCDx test could result in clinical burden and additional cost without demonstrated benefits.

With regard to the studies submitted on ISCDx, we are unsure whether they demonstrate or examine the impacts of using the test on patient care and clinical outcomes. The applicant did not submit evidence to demonstrate that a recurrent stroke did not happen, that the use of more invasive investigational or further diagnostic tools was avoided, or that there was an increase in appropriate treatment and recurrent stroke prevention protocols after using the test. In the study methodology paper by Jauch et al., the applicant did not include full survey results because they were not available at the time the application was submitted. Additionally, we are unsure how to interpret the results from the small BASE study for ISCDx because there are variations between the study methodology as explained in the Jauch, E.C. paper and the way the studies were actually conducted. For example, while the study methodology as described in the Jauch et al., paper stated that the blood samples were kept at room temperature for up to 24 hours and then frozen,319 in the poster presentation by Jauch, E.C., the samples were frozen immediately after collection.320 We also have concerns regarding the testing accuracy of the ISCDx test. In the BASE study results that were submitted on the ISCDx test, the sensitivity was 0.90 and specificity was 0.70 for a sample size of 218 survey subjects.321 Due to these figures, we question whether ISC–REST would alter the standard care ischemic stroke patients receive. Further, we note that the only trials submitted on the ISCDx test included patients whose cause of stroke was already determined. While the applicant claims that ISC–REST has the ability to stratify ischemic stroke patients early in the diagnosis process to reduce the number of cryptogenic stroke diagnoses and more appropriately manage stroke to reduce secondary recurrence, we question if there is sufficient evidence to evaluate this claim because the cause of stroke had already been determined in the study results the applicant submitted.

The applicant stated that there is no guideline standard of care pathway to determine cause of stroke, and uses this assertion as an underlying assumption for its claims in support of substantial clinical improvement. CMS notes that while there is room for clinicians to order certain additional tests over others depending on a patient’s circumstances, there are algorithms developed by professional societies for the diagnosis and treatment of ischemic stroke.322 These best practices are updated frequently to reflect current clinical research, and detail prehospital care, urgent and emergency evaluation and treatment, and in-hospital management, including early secondary prevention measures.

We are also unsure whether the way the ISC–REST test kit is used will limit its ability to impact any care decisions and prevent hospital use. Specifically, we question if the extended 30-hour window for obtaining the patient’s samples, as well as the added element of shipping the ISC–REST kit to a single laboratory, is in line with stroke protocols, which focus on diagnosing a stroke as quickly as possible to maximize patient outcomes. There has been extensive research regarding the time-outcome relationship for stroke; because brain cells die rapidly after the event of the stroke, effective treatment must start as early as possible.323 Since every minute matters in stroke treatment and secondary prevention, we believe that clinicians may order further diagnostic tests and begin a treatment plan before the ISC–REST kit results become available, which may limit the utility of the technology and its ability to impact care decisions. In other words, CMS questions whether ISC–REST would improve or alter the standard course of treatment for ischemic stroke due to the delay in receiving test results. We further note that sending the ISC–REST test kit to an external lab may cause a delay in COVID–19 test results as well. Therefore, we remain unclear as to the clinical benefit of combining these tests and are unsure how this potential delay in delay results affects the technology’s ability to impact care decisions.

316 Ibid.
317 Peacock, W.F. and Edward Jauch., "Cardioembolic vs Large Artery Atherosclerotic Stroke: Can we answer Hobson’s question?" , pre-publication manuscript.
319 Ibid.
321 Ibid.
The applicant also submitted various narrative responses claiming that testing for COVID–19 at the same time as testing for the cause of the ischemic stroke constitutes substantial clinical improvement over existing technologies. Regarding the applicant’s claims that the ISC–REST test kit is convenient for clinicians, CMS is unsure whether there is currently a need to order testing for COVID–19 along with the ISCDx test because, during the COVID–19 public health emergency, many hospitals automatically test for COVID–19 upon hospital admission to ensure proper treatment and containment. Further, CMS is unsure whether convenience for clinicians is evidence of substantial clinical improvement. With regard to the applicant’s claim that, in its experience, supporters of the ISC–REST kit claim that they would order ISC–REST kit testing 100% of the time versus ordering three separate tests, it is unclear whether clinical supporters of the ISC–REST kit are representative of all providers, including those participating in Medicare. Similarly, the applicant did not provide evidence to support its claim that ISC–REST will help gather data on any connection between COVID–19 and stroke, including a tracking mechanism for how long COVID–19 antibodies last, such as how ISC–REST would be better at gathering data on COVID–19 and stroke than other COVID–19 diagnostics.

Regarding the applicant’s claims that knowing the results of all three tests in the ISC–REST kit, including COVID–19 status, impacts clinicians’ choice of therapeutics for secondary stroke prevention or other treatment decisions, we are not sure that this conclusion can be reached as the connection between COVID–19 and stroke has not been established. As evidence of the connection between COVID–19 and stroke, the applicant claims that the cryptogenic rate is higher for stroke patients with COVID–19 than stroke patients without COVID–19 and references a study of one hospital, where 32 patients hospitalized for COVID–19 or positive for COVID–19 experienced an ischemic stroke during a one-month period of time in the spring of 2020. Other studies have been conducted researching the possible link between COVID–19 and stroke, including one study with a larger sample size, analyzing over 27,000 participants across 54 health care facilities, that suggests that stroke in COVID–19 patients is infrequent, and is associated with typical stroke risk factors. Another study, analyzing data from close to 25,000 discharges from a large New York-based health care system from January to April 2020, did not identify a positive association between ischemic stroke and COVID–19. Based on the information that the applicant submitted, it is also unclear whether stroke treatment for an ischemic stroke patient, who is also COVID–19 positive, would be different than for an ischemic stroke patient who is COVID–19 negative. For example, it is unclear whether a stroke patient would not receive antiplatelet or anticoagulative treatment due to a COVID–19 diagnosis. Because the connection between stroke and COVID–19 is unclear and is still in the preliminary stages of research, we are unsure whether testing for the type of ischemic stroke as well as COVID–19 status is a substantial clinical improvement over existing technologies. As stated previously, the applicant did not submit studies or data on how using the ISC–REST kit has an impact on downstream treatment decisions or patient outcomes to determine whether knowing a patient’s COVID–19 status and the type of ischemic stroke they experienced is a substantial clinical improvement over existing technologies. Furthermore, as there is research that casts doubt on the connection between COVID–19 and stroke, we question whether placing an emphasis on COVID–19 status and stroke may encourage a clinician from continuing to investigate the cause or treat an underlying predisposing condition for stroke, once the patient has recovered from COVID–19, and whether this could potentially lead to negative patient outcomes. We are inviting public comments on whether ISC–REST meets the substantial clinical improvement criterion. We did not receive any written comments in response to the New

333 Gide TN, et al. Primary and acquired resistance to immune checkpoint inhibitors in
stated there are currently no approved agents for the treatment of patients with metastatic melanoma who fail available standard-of-care therapies, which include immune checkpoint inhibitors (ICI) and BRAF/MEK inhibitors. According to the applicant, the only commonly used available therapy for these patients post progression is chemotherapy. The applicant stated that as demonstrated in the literature referenced previously, retreatment with chemotherapy 336 337 338 or experimental combined ICIs 339 offers a poor Objective Response Rate (ORR) of 4%–10%. 341 342 a median PFS of 2.7–3.7 months 343 344 345 and a median OS of 7–8 months. 346 347

With respect to the newness criterion, the applicant stated that they are currently awaiting FDA approval of the Biologics License Application (BLA) for lifileucel as an autologous TIL immunotherapy indicated for the treatment of patients with unresectable or metastatic melanoma who have been previously treated with at least one systemic therapy, including a PD–1 blocking antibody and, if BRAF V600 mutation positive, a BRAF inhibitor or BRAF inhibitor with MEK inhibitor. The applicant stated that currently, there are no ICD–10–PCS future codes to uniquely identify procedures involving lifileucel. We note that the applicant has submitted a request for approval for a unique ICD–10–PCS code for the administration of lifileucel beginning in FY 2022.

If a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered "new" for purposes of new technology add-on payments. With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant asserted that lifileucel is not the same or similar to the mechanism of action of currently available products used in the treatment of advanced melanoma. According to the applicant, prior to 2011, the most common first-line treatment for patients with Stage III unresectable or Stage IV unresectable metastatic melanoma was single-agent therapy using dacarbazine (DTIC) or another alkylating agent, or combination therapy using dacarbazine (DTIC) together with a platinum-based drug such as carboplatin and/or a microtubule inhibitor such as paclitaxel. 348 349 350 IL–2 therapy has also been used as part of a biochemotherapy (BCT) antineoplastic regimen. The applicant asserted that since 2011, treatment options for advanced-stage melanoma have included kinase inhibitors such as BRAF and MEK inhibitors, cytotoxic T-lymphocyte-associated antigen 4 (CTLA–4) and programmed cell-death protein 1 (PD–1) blocking antibodies. According to the applicant, the currently available first and second line treatments for advanced melanoma include kinase inhibitors (BRAF and MEK inhibitors) and ICIs (anti-CTLA–4 antibody and anti-PD1 antibody). 351 The applicant asserts that there are no approved treatment options for patients with metastatic melanoma that have progressed after two lines of therapy.

According to the applicant, TIL cell therapy with lifileucel uses a novel and distinct mechanism of action which delivers a highly customized, personalized, and targeted treatment for unresectable or metastatic melanoma. Lifileucel TIL cell therapy involves the ACT of autologous T-cells directly isolated from the patient’s tumor tissue and expanded ex vivo. Following the infusion of lifileucel, the TIL migrate back into the patient’s tumor deposits, including metastases, where they trigger specific tumor cell killing upon recognition of tumor antigens. According to the applicant, after approval, lifileucel will be the only personalized, cellular therapy indicated for the treatment of unresectable or metastatic melanoma.

The applicant asserted TIL cell therapy with lifileucel is also highly differentiated from currently approved chimeric antigen receptor (CAR) T-cell therapies which treat liquid tumors: YESCARTA® (axicabtagene ciloleucel) and KYMRIAH® (tisagenlecleucel), both approved for the treatment of large B-cell lymphoma in adults, and recently approved TECARTIL® (brexucabtagene autoleucel) indicated for the treatment of relapsed/refractory mantle cell lymphoma (MCL). According to the applicant, CAR T-cell therapies mainly target only single/surface tumor antigens, versus TIL cell therapy which targets multiple tumor antigens. The applicant stated that there are no examples of successful utility of CAR T-cell therapy in solid tumors. The applicant further stated that the TIL mechanism of action does not rely on genetically engineered receptors, but maintains some physiologic control and therefore avoids hyperactivation that may be responsible for complications from CAR T-cell therapy such as cytokine release syndrome (CRS) or neurotoxicity. 352 Per the applicant,
there have been no off-tissue effects found to date following treatment with TIL cell therapy, and TIL therefore offers a differentiated safety profile compared to CAR T-cell products or ICIs and confirms the mechanism of action differentiation discussed previously.

With respect to the second criterion, whether a product is assigned to the same or different MS–DRG, the applicant stated that CMS has not yet determined the MS–DRG mapping for cellular therapies such as lifileucel. The applicant asserted that while TIL cell therapy is different from CAR T-cell therapy mechanistically, from tumor (solid vs. liquid) activity, and from a safety perspective, there are other similarities that support grouping the two technologies into a common MS–DRG for autologous T-cell immunotherapy. The applicant asserted that both CAR T-cell and TIL require collection of a patient’s lymphocyte cells which are the core component of a complicated and lengthy manufacturing process to produce a patient-specific therapeutic dose. The applicant added that both are primarily administered in a hospital inpatient setting because of the risk of significant but treatable adverse events. Lastly, the applicant stated because of the complex process required to develop a personalized treatment and the total cost of caring for patients who have received TIL cell therapy that is similar to CAR T-cell therapy, these cases are expected to be comparably resource intensive.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant stated that with FDA approval, lifileucel will be the only FDA-approved cellular therapy for patients with unresectable or metastatic melanoma who have been previously treated with at least one systemic therapy.

Based on the information provided by the applicant, we have several questions with regard to the newness criterion. With respect to the first criterion for substantial similarity, we note that for FY 2019 (83 FR 41299), CMS approved two CD19 directed CAR T-cell therapies, YESCARTA® and KYMRIAH®, for new technology add-on payments. The applicant asserted that CAR T-cell therapies and TIL therapies can be differentiated by multiple criteria as listed previously. We are seeking public comment on whether the mechanism of action for lifileucel is different from existing therapies, in particular whether the distinguishing criteria identified by the applicant are sufficient to differentiate the mechanism of action of TIL from CAR T-cell therapies.

We are inviting public comments on whether lifileucel is substantially similar to other currently available therapies and/or technologies and whether this technology meets the newness criterion.

With regard to the cost criterion, the applicant provided the following analysis to demonstrate the technology meets the cost criterion. The applicant conducted multiple analyses to include a primary cohort, a cohort with a principle or admitting ICD–10 diagnosis of melanoma and metastasis and a cohort with any ICD–10 diagnosis of melanoma and metastasis. The ICD–10 codes and MS–DRGs identified by the applicant (for the primary cohort) are listed in the following tables.

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>838</td>
<td>Chemo w Acute Leukemia As Sdx w CC or High Dose Chemo Agent</td>
</tr>
<tr>
<td>847</td>
<td>Chemotherapy w/o Acute Leukemia as Secondary Diagnosis w CC</td>
</tr>
<tr>
<td>837</td>
<td>Chemo w Acute Leukemia as Sdx or w High Dose Chemo Agent w MCC</td>
</tr>
<tr>
<td>846</td>
<td>Chemotherapy w/o Acute Leukemia as Secondary Diagnosis w MCC</td>
</tr>
<tr>
<td>981</td>
<td>Extensive O.R. Procedure Unrelated To Principal Diagnosis w MCC</td>
</tr>
<tr>
<td>330</td>
<td>Major Small &amp; Large Bowel Procedures w CC</td>
</tr>
<tr>
<td>829</td>
<td>Myeloproliferative Disorders Or Poorly Differentiated Neoplasms w Other Procedure w CC/MCC</td>
</tr>
<tr>
<td>939</td>
<td>O.R. Proc w Diagnoses of Other Contact w Health Services w MCC</td>
</tr>
<tr>
<td>029</td>
<td>Spinal Procedures w CC or Spinal Neurostimulators</td>
</tr>
<tr>
<td>641</td>
<td>Misc Disorders of Nutrition, Metabolism, Fluids/Electrolytes w/o MCC</td>
</tr>
<tr>
<td>596</td>
<td>Major Skin Disorders w/o MCC</td>
</tr>
<tr>
<td>542</td>
<td>Pathological Fractures &amp; Musculoskelet &amp; Conn Tiss Malig w MCC</td>
</tr>
<tr>
<td>181</td>
<td>Respiratory Neoplasms w CC</td>
</tr>
<tr>
<td>374</td>
<td>Digestive Malignancy w MCC</td>
</tr>
<tr>
<td>308</td>
<td>Cardiac Arrhythmia &amp; Conduction Disorders w MCC</td>
</tr>
<tr>
<td>841</td>
<td>Lymphoma &amp; Non-Acute Leukemia w CC</td>
</tr>
<tr>
<td>595</td>
<td>Major Skin Disorders w MCC</td>
</tr>
<tr>
<td>481</td>
<td>Hip &amp; Femur Procedures Except Major Joint w CC</td>
</tr>
<tr>
<td>054</td>
<td>Nervous System Neoplasms w MCC</td>
</tr>
<tr>
<td>393</td>
<td>Other Digestive System Diagnoses w MCC</td>
</tr>
</tbody>
</table>

To conduct the primary analysis, the applicant identified a cohort of patients that would be eligible for lifileucel that met the criteria of having any ICD–10 diagnosis of melanoma from the following table, and any ICD–10 diagnosis of metastasis from the following table, and any ICD–10 procedure code indicating administration of IL–2 or other chemotherapy via central or peripheral vein from the following table.

BILING CODE 4120–01–P
<table>
<thead>
<tr>
<th>ICD-10-CM</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C43</td>
<td>Malignant melanoma of skin</td>
</tr>
<tr>
<td>C43.0</td>
<td>Malignant melanoma of lip</td>
</tr>
<tr>
<td>C43.1</td>
<td>Malignant melanoma of eyelid, including canthus</td>
</tr>
<tr>
<td>C43.10</td>
<td>Malignant melanoma of unspecified eyelid, including canthus</td>
</tr>
<tr>
<td>ICD-10-CM</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>C43.11</td>
<td>Malignant melanoma of right eyelid, including canthus</td>
</tr>
<tr>
<td>C43.111</td>
<td>Malignant melanoma of right upper eyelid, including canthus</td>
</tr>
<tr>
<td>C43.112</td>
<td>Malignant melanoma of right lower eyelid, including canthus</td>
</tr>
<tr>
<td>C43.12</td>
<td>Malignant melanoma of left eyelid, including canthus</td>
</tr>
<tr>
<td>C43.121</td>
<td>Malignant melanoma of left upper eyelid, including canthus</td>
</tr>
<tr>
<td>C43.122</td>
<td>Malignant melanoma of left lower eyelid, including canthus</td>
</tr>
<tr>
<td>C43.2</td>
<td>Malignant melanoma of ear and external auricular canal</td>
</tr>
<tr>
<td>C43.20</td>
<td>Malignant melanoma of unspecified ear and external auricular canal</td>
</tr>
<tr>
<td>C43.21</td>
<td>Malignant melanoma of right ear and external auricular canal</td>
</tr>
<tr>
<td>C43.22</td>
<td>Malignant melanoma of left ear and external auricular canal</td>
</tr>
<tr>
<td>C43.3</td>
<td>Malignant melanoma of other and unspecified parts of face</td>
</tr>
<tr>
<td>C43.30</td>
<td>Malignant melanoma of unspecified part of face</td>
</tr>
<tr>
<td>C43.31</td>
<td>Malignant melanoma of nose</td>
</tr>
<tr>
<td>C43.39</td>
<td>Malignant melanoma of other parts of face</td>
</tr>
<tr>
<td>C43.4</td>
<td>Malignant melanoma of scalp and neck</td>
</tr>
<tr>
<td>C43.5</td>
<td>Malignant melanoma of trunk</td>
</tr>
<tr>
<td>C43.51</td>
<td>Malignant melanoma of anal skin</td>
</tr>
<tr>
<td>C43.52</td>
<td>Malignant melanoma of skin of breast</td>
</tr>
<tr>
<td>C43.59</td>
<td>Malignant melanoma of other part of trunk</td>
</tr>
<tr>
<td>C43.6</td>
<td>Malignant melanoma of upper limb, including shoulder</td>
</tr>
<tr>
<td>C43.60</td>
<td>Malignant melanoma of unspecified upper limb, including shoulder</td>
</tr>
<tr>
<td>C43.61</td>
<td>Malignant melanoma of right upper limb, including shoulder</td>
</tr>
<tr>
<td>C43.62</td>
<td>Malignant melanoma of left upper limb, including shoulder</td>
</tr>
<tr>
<td>C43.7</td>
<td>Malignant melanoma of lower limb, including hip</td>
</tr>
<tr>
<td>C43.70</td>
<td>Malignant melanoma of unspecified lower limb, including hip</td>
</tr>
<tr>
<td>C43.71</td>
<td>Malignant melanoma of right lower limb, including hip</td>
</tr>
<tr>
<td>C43.72</td>
<td>Malignant melanoma of left lower limb, including hip</td>
</tr>
<tr>
<td>C43.8</td>
<td>Malignant melanoma of overlapping sites of skin</td>
</tr>
<tr>
<td>C43.9</td>
<td>Malignant melanoma of skin, unspecified</td>
</tr>
<tr>
<td>D03.0</td>
<td>Melanoma in situ of lip</td>
</tr>
<tr>
<td>D03.10</td>
<td>Melanoma in situ of unspecified eyelid, including canthus</td>
</tr>
<tr>
<td>D03.11</td>
<td>Melanoma in situ of right eyelid, including canthus</td>
</tr>
<tr>
<td>D03.12</td>
<td>Melanoma in situ of left eyelid, including canthus</td>
</tr>
<tr>
<td>D03.20</td>
<td>Melanoma in situ of unspecified ear and external auricular canal</td>
</tr>
<tr>
<td>D03.21</td>
<td>Melanoma in situ of right ear and external auricular canal</td>
</tr>
<tr>
<td>D03.22</td>
<td>Melanoma in situ of left ear and external auricular canal</td>
</tr>
<tr>
<td>D03.30</td>
<td>Melanoma in situ of unspecified part of face</td>
</tr>
<tr>
<td>D03.39</td>
<td>Melanoma in situ of other parts of face</td>
</tr>
<tr>
<td>D03.4</td>
<td>Melanoma in situ of scalp and neck</td>
</tr>
<tr>
<td>D03.51</td>
<td>Melanoma in situ of anal skin</td>
</tr>
<tr>
<td>D03.52</td>
<td>Melanoma in situ of breast (skin) (soft tissue)</td>
</tr>
<tr>
<td>D03.59</td>
<td>Melanoma in situ of other part of trunk</td>
</tr>
<tr>
<td>D03.60</td>
<td>Melanoma in situ of unspecified upper limb, including shoulder</td>
</tr>
<tr>
<td>D03.61</td>
<td>Melanoma in situ of right upper limb, including shoulder</td>
</tr>
<tr>
<td>D03.62</td>
<td>Melanoma in situ of left upper limb, including shoulder</td>
</tr>
<tr>
<td>D03.70</td>
<td>Melanoma in situ of unspecified lower limb, including hip</td>
</tr>
<tr>
<td>D03.71</td>
<td>Melanoma in situ of right lower limb, including hip</td>
</tr>
<tr>
<td>D03.72</td>
<td>Melanoma in situ of left lower limb, including hip</td>
</tr>
<tr>
<td>D03.8</td>
<td>Melanoma in situ of other sites</td>
</tr>
<tr>
<td>D03.9</td>
<td>Melanoma in situ, unspecified</td>
</tr>
<tr>
<td>ICD-10-CM</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C77</td>
<td>Secondary and unspecified malignant neoplasm of lymph nodes</td>
</tr>
<tr>
<td>C77.0</td>
<td>Secondary and unspecified malignant neoplasm of lymph nodes of head, face and neck</td>
</tr>
<tr>
<td>C77.1</td>
<td>Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes</td>
</tr>
<tr>
<td>C77.2</td>
<td>Secondary and unspecified malignant neoplasm of intra-abdominal lymph nodes</td>
</tr>
<tr>
<td>C77.3</td>
<td>Secondary and unspecified malignant neoplasm of axilla and upper limb lymph nodes</td>
</tr>
<tr>
<td>C77.4</td>
<td>Secondary and unspecified malignant neoplasm of inguinal and lower limb lymph nodes</td>
</tr>
<tr>
<td>C77.5</td>
<td>Secondary and unspecified malignant neoplasm of intrapelvic lymph nodes</td>
</tr>
<tr>
<td>C77.8</td>
<td>Secondary and unspecified malignant neoplasm of lymph nodes of multiple regions</td>
</tr>
<tr>
<td>C77.9</td>
<td>Secondary and unspecified malignant neoplasm of lymph node, unspecified</td>
</tr>
<tr>
<td>C78</td>
<td>Secondary malignant neoplasm of respiratory and digestive organs</td>
</tr>
<tr>
<td>C78.0</td>
<td>Secondary malignant neoplasm of lung</td>
</tr>
<tr>
<td>C78.00</td>
<td>Secondary malignant neoplasm of unspecified lung</td>
</tr>
<tr>
<td>C78.01</td>
<td>Secondary malignant neoplasm of right lung</td>
</tr>
<tr>
<td>C78.02</td>
<td>Secondary malignant neoplasm of left lung</td>
</tr>
<tr>
<td>C78.1</td>
<td>Secondary malignant neoplasm of mediastinum</td>
</tr>
<tr>
<td>C78.2</td>
<td>Secondary malignant neoplasm of pleura</td>
</tr>
<tr>
<td>C78.3</td>
<td>Secondary malignant neoplasm of other and unspecified respiratory organs</td>
</tr>
<tr>
<td>C78.30</td>
<td>Secondary malignant neoplasm of unspecified respiratory organ</td>
</tr>
<tr>
<td>C78.39</td>
<td>Secondary malignant neoplasm of other respiratory organs</td>
</tr>
<tr>
<td>C78.4</td>
<td>Secondary malignant neoplasm of small intestine</td>
</tr>
<tr>
<td>C78.5</td>
<td>Secondary malignant neoplasm of large intestine and rectum</td>
</tr>
<tr>
<td>C78.6</td>
<td>Secondary malignant neoplasm of retroperitoneum and peritoneum</td>
</tr>
<tr>
<td>C78.7</td>
<td>Secondary malignant neoplasm of liver and intrahepatic bile duct</td>
</tr>
<tr>
<td>C78.8</td>
<td>Secondary malignant neoplasm of other and unspecified digestive organs</td>
</tr>
<tr>
<td>C78.80</td>
<td>Secondary malignant neoplasm of unspecified digestive organ</td>
</tr>
<tr>
<td>C78.89</td>
<td>Secondary malignant neoplasm of other digestive organs</td>
</tr>
<tr>
<td>C79</td>
<td>Secondary malignant neoplasm of other and unspecified sites</td>
</tr>
<tr>
<td>C79.0</td>
<td>Secondary malignant neoplasm of kidney and renal pelvis</td>
</tr>
<tr>
<td>C79.00</td>
<td>Secondary malignant neoplasm of unspecified kidney and renal pelvis</td>
</tr>
<tr>
<td>C79.01</td>
<td>Secondary malignant neoplasm of right kidney and renal pelvis</td>
</tr>
<tr>
<td>C79.02</td>
<td>Secondary malignant neoplasm of left kidney and renal pelvis</td>
</tr>
<tr>
<td>C79.1</td>
<td>Secondary malignant neoplasm of bladder and other and unspecified urinary organs</td>
</tr>
<tr>
<td>C79.10</td>
<td>Secondary malignant neoplasm of unspecified urinary organs</td>
</tr>
<tr>
<td>C79.11</td>
<td>Secondary malignant neoplasm of bladder</td>
</tr>
<tr>
<td>C79.19</td>
<td>Secondary malignant neoplasm of other urinary organs</td>
</tr>
<tr>
<td>C79.2</td>
<td>Secondary malignant neoplasm of skin</td>
</tr>
<tr>
<td>C79.3</td>
<td>Secondary malignant neoplasm of brain and cerebral meninges</td>
</tr>
<tr>
<td>C79.31</td>
<td>Secondary malignant neoplasm of brain</td>
</tr>
<tr>
<td>C79.32</td>
<td>Secondary malignant neoplasm of cerebral meninges</td>
</tr>
<tr>
<td>C79.4</td>
<td>Secondary malignant neoplasm of other and unspecified parts of nervous system</td>
</tr>
<tr>
<td>C79.40</td>
<td>Secondary malignant neoplasm of unspecified part of nervous system</td>
</tr>
<tr>
<td>C79.49</td>
<td>Secondary malignant neoplasm of other parts of nervous system</td>
</tr>
<tr>
<td>C79.5</td>
<td>Secondary malignant neoplasm of bone and bone marrow</td>
</tr>
<tr>
<td>C79.51</td>
<td>Secondary malignant neoplasm of bone</td>
</tr>
<tr>
<td>C79.52</td>
<td>Secondary malignant neoplasm of bone marrow</td>
</tr>
<tr>
<td>C79.6</td>
<td>Secondary malignant neoplasm of ovary</td>
</tr>
<tr>
<td>C79.60</td>
<td>Secondary malignant neoplasm of unspecified ovary</td>
</tr>
<tr>
<td>C79.61</td>
<td>Secondary malignant neoplasm of right ovary</td>
</tr>
<tr>
<td>C79.62</td>
<td>Secondary malignant neoplasm of left ovary</td>
</tr>
<tr>
<td>C79.7</td>
<td>Secondary malignant neoplasm of adrenal gland</td>
</tr>
<tr>
<td>C79.70</td>
<td>Secondary malignant neoplasm of unspecified adrenal gland</td>
</tr>
<tr>
<td>C79.71</td>
<td>Secondary malignant neoplasm of right adrenal gland</td>
</tr>
</tbody>
</table>
The applicant used the FY 2019 MedPAR file dataset with the FY 2019 Final Rule with Correction Notice IPPS Impact File and the FY 2022 New Technology Thresholds to perform their cost analyses. Using the FY 2019 MedPAR file dataset, the applicant’s search resulted in the identification of 20 MS–DRGs to which cases in the primary cohort mapped, as previously listed. The applicant provided two sensitivity cohorts: (1) A principal or admitting ICD–10 diagnosis of melanoma and metastasis; and (2) any ICD–10 diagnosis of melanoma and metastasis. The applicant stated that the analysis was limited to Medicare discharges from facilities paid under the IPPS by only including hospitals listed in the FY 2019 Final Rule IPPS Impact File. The previously discussed criteria resulted in 220 claims from 20 MS–DRGs in the primary cohort, 1,052 claims from 79 MS–DRGs in the sensitivity cohort 1, and 6,988 claims from 406 MS–DRGs in the primary cohort, 1,052 MS–DRGs in the sensitivity cohort 1, and 6,988 claims from 406 MS–DRGs in the sensitivity cohort 2. The applicant imputed a case count of 11 for those MS–DRGs with fewer than 11 cases, which per the applicant resulted in a significantly higher case count than if it used the actual case counts. The applicant stated that imputing the cases did not change the results of the charge threshold analyses presented below, and the final inflated average case-weighted standardized charge per case exceeded the case-weighted threshold in all scenarios regardless of whether the actual case count or minimum case count of 11 is used. For each cohort, the applicant provided multiple analyses, by first using the threshold from each MS–DRG included, second using the MS–DRG 018 threshold for all included MS–DRGs and the national pharmacy CCR (0.187) to calculate charges, and lastly using the MS–DRG 018 threshold for all included MS–DRGs and the applicant-calculated CAR T-cell CCR (0.314) to calculate charges. For example, in the first analysis, the applicant used a threshold amount of $62,724 for MS–DRG 838 but in second and third analyses the applicant used a threshold of $1,251,126 for MS–DRG 838 (the same threshold for MS–DRG 018). The applicant first calculated a case weighted threshold of $201,610 from the total arithmetic mean charge to estimate CAR T-cell charges, and lastly using the threshold from each MS–DRG provided multiple analyses, by first using the threshold from each MS–DRG included, second using the MS–DRG 018 threshold for all included MS–DRGs and the national pharmacy CCR (0.187), and in secondary analyses, by a CAR T-cell CCR of 0.314 calculated by the applicant. To estimate the CAR T-cell CCR, the applicant obtained the MS–DRG 018 arithmetic mean charge in the AOR/BOR FY2021 Proposed Rule File released by CMS ($1,387,946). The applicant subtracted publicly reported non-drug charges for TECARTUS of $201,610 from the total arithmetic mean charge to estimate CAR T-cell charges (approximately $1,186,336). The applicant then divided a CAR T-cell wholesale acquisition cost of $373,000 (WAC for those CAR T-cell products approved as of FY 2019) by the estimated CAR T-cell charges, to estimate a CAR T-cell CCR of 0.314 (CCR = 373,000/1,186,336).

The applicant stated no charges were removed for the prior technology because previous treatments will continue to be reflected in cases where

<table>
<thead>
<tr>
<th>ICD-10-PCS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3E03002</td>
<td>Introduction of high-dose interleukin-2 into peripheral vein, open approach</td>
</tr>
<tr>
<td>3E03003</td>
<td>Introduction of low-dose interleukin-2 into peripheral vein, open approach</td>
</tr>
<tr>
<td>3E03005</td>
<td>Introduction of other antineoplastic into peripheral vein, open approach</td>
</tr>
<tr>
<td>3E03302</td>
<td>Introduction of high-dose interleukin-2 into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>3E03303</td>
<td>Introduction of low-dose interleukin-2 into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>3E03305</td>
<td>Introduction of other antineoplastic into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>3E04002</td>
<td>Introduction of high-dose interleukin-2 into central vein, open approach</td>
</tr>
<tr>
<td>3E04003</td>
<td>Introduction of low-dose interleukin-2 into central vein, open approach</td>
</tr>
<tr>
<td>3E04005</td>
<td>Introduction of other antineoplastic into central vein, open approach</td>
</tr>
<tr>
<td>3E04302</td>
<td>Introduction of high-dose interleukin-2 into central vein, percutaneous approach</td>
</tr>
<tr>
<td>3E04303</td>
<td>Introduction of low-dose interleukin-2 into central vein, percutaneous approach</td>
</tr>
<tr>
<td>3E04305</td>
<td>Introduction of other antineoplastic into central vein, percutaneous approach</td>
</tr>
</tbody>
</table>
lifileucel is administered. Next the applicant calculated the average standardized charge per case using the FY 2019 IPPS/LTC PPS final rule Impact file. The 2-year inflation factor of 13.2% (1.13218) was obtained from the FY 2021 IPPS/LTC PPS final rule and applied to the average standardized charge per case.

The applicant calculated the final inflated average case-weighted standardized charge per case by adding the estimated charges for the technology to the inflated average standardized charge per case. The applicant determined a final inflated average case-weighted standardized charge per case of $2,188,043 and $1,355,334 from the primary cohort, pharmacy and CAR T-cell CCR analyses with CAR T-cell thresholds respectively, which both exceed the average case-weighted threshold amount of $1,251,126.

The applicant determined a final inflated average case-weighted standardized charge per case of $2,134,830 and $1,302,121 from the pharmacy and CAR T-cell CCR analyses with CAR T-cell thresholds respectively, which both exceed the average case-weighted threshold amount of $1,251,126.

Based on the information provided by the applicant, we have the following concerns regarding the cost analysis. As noted in previous discussions, the submitted costs for CAR T-cell therapies vary widely due to differences in provider billing and charging practices for this therapy. Therefore, with regard to the use of this data for purposes of calculating a CAR T-cell CCR, we are uncertain how representative this data is for use in the applicant’s cost analyses given this potential for variability.

The applicant also uses both ICD–10 diagnosis code categories and subcategories which are not valid diagnosis categories therefore not appropriate to include for purposes of the cost analysis. There is a potential that inappropriately including ICD–10 diagnosis code categories and subcategories may alter the number of cases identified for inclusion in the cost analysis. We are seeking public comments on whether this issue may affect the cost analysis.

We continue to be interested in public comments regarding the eligibility of CAR T-cell technologies for new technology add-on payments when assigned to MS–DRG 018. As we have noted in prior rulemaking with regard to the CAR T-cell therapies (83 FR 41172 and 85 FR 58603 through 58606), if a new MS–DRG were to be created, then consistent with section 1886(d)(5)(K)(ix) of the Act, there may no longer be a need for a new technology add-on payment under section 1886(d)(5)(K)(ii)(III) of the Act. We invite public comments on whether lifileucel meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that lifileucel represents a substantial clinical improvement over existing technologies. In support of this assertion, the applicant provided data from two cohorts of the C–144–01 study, an ongoing phase 2, multicenter study (NCT02360579) consisting of four cohorts:

- Cohort 1 (n=30 generation 1 non-cryopreserved TIL product), not included for review as part of the applicant’s new technology add-on payment application.
- Cohort 2 (n=60 generation 2 cryopreserved TIL product), included for review as part of the applicant’s new technology add-on payment application.
- Cohort 3 (n=75 generation 2 cryopreserved TIL product), included for review as part of the applicant’s new technology add-on payment application.
- Cohort 4 (n=75 generation 2 cryopreserved TIL product), included for review as part of the applicant’s new technology add-on payment application and also provided to the FDA as part of the applicant’s BLA application.

The applicant stated that C–144–01 (NCT02360579) is a multi-cohort, Phase 2 clinical trial evaluating the safety and efficacy of lifileucel in patients that have been diagnosed with unresectable or metastatic Stage IIIIC or IV melanoma. Addition to what the applicant previously described, the authors stated that in a sub-group analysis of 42 patients who were primary refractory to anti-PD–1, the ORR was 40.5% compared to the overall cohort.

According to the applicant, the primary objective of this study was to evaluate the efficacy of lifileucel in patients with unresectable or metastatic melanoma using the objective response rate (ORR), as assessed by the independent review committee (IRC) per Response Evaluation Criteria in Solid Tumors (RECIST) version 1.1. The applicant added that secondary objectives were to: (1) Evaluate the efficacy endpoints of duration of response (DOR), disease control rate (DCR), and progression free survival (PFS); (2) further evaluate the efficacy of lifileucel in patients with unresectable or metastatic melanoma by assessing ORR, DOR, DCR, and PFS; (3) to evaluate overall survival (OS); and (4) to characterize the safety profile of lifileucel. For cohort 2, 60 patients were determined to allow estimation of the ORR using the maximum half width of the two-sided 95% confidence limit of less than 13.2% when ORR is expected to range from 20–50%. For cohort 4, approximately 75 patients were planned to be infused based on the null hypothesis of 10% ORR (based on historical control) which resulted in over 90% power to demonstrate superiority to this control. Patients included in this study were 18 years or older, had an ECOG (Eastern Cooperative Oncology Group) performance status of 0 or 1 upon entry, an estimated life expectancy of less than or equal to 3 months, and had unresectable or metastatic melanoma (stage IIIC or IV) treated with at least one prior systemic therapy including an anti-PD–1 antibody and a BRAF/MEK inhibitor. Patients were required to have a washout period of at least 28 days from prior anticancer therapy(ies) to the start of the planned nonmyeloablative lymphodeletion (NMA–LD) preconditioning regimen. The applicant explained that prior to the infusion of lifileucel, the patient receives NMA–LD with cyclophosphamide (60 mg/kg) intravenously daily for 2 days followed by fludarabine (25 mg/m²) intravenously for 5 days to eliminate potentially suppressive immune cells which support the tumor and to maximize engraftment and potency of the lifileucel therapy through homeostatic proliferation.

The applicant stated that the patients in this study had a high tumor burden at baseline and had received a mean of 3.3 lines (range, 1–9) of prior therapies. Twenty-eight patients (42%) had liver and/or brain lesions at baseline. Each prior line of therapy was defined as any 352

concomitant therapy given to the patient even if more than one target for each treatment was involved.\textsuperscript{355} The applicant added that 77% of patients had progressed on prior anti-CTLA–4 blockade therapy, 99% had progressed on prior anti-PD–1/PD–L1 therapy, and 23% had received BRAF/MEK inhibitors. All patients had received PD on their prior therapy before study entry.

As justification for the null hypothesis of ORR less than or equal to 10%, the applicant stated that according to the NCCN guideline for metastatic melanoma, the only approved treatment is dacarbazine (DTIC) whereas other agents such as carboplatin, paclitaxel, docetaxel, nab-paclitaxel, and temozolomide are not approved by the FDA and are not appropriate as comparators. The applicant next presented the results from four studies which had at least one treatment arm receiving DTIC: (1) An abstract of a sample with metastatic melanoma previously treated with post-anti-PD–1 (no prior BRAF/MEK, metastatic melanoma) which resulted in a 10% ORR in the DTIC arm;\textsuperscript{356} (2) A sample with advanced melanoma previously treated with post-ipilimumab (+/− BRAF inhibitor) which resulted in a 10.6% ORR in the DTIC arm;\textsuperscript{357} (3) A sample of treatment-naïve patients with unresectable stage IIIC or IV melanoma which resulted in a 9.8% ORR in the DTIC arm;\textsuperscript{357} and (4) A sample of chemonaive patients with metastatic melanoma of which 9% had received prior therapy for metastatic disease which resulted in an 11% ORR in the DTIC arm.\textsuperscript{358} The applicant stated that the historical control ORR of 10% for advanced melanoma was used for two reasons: First, the results from the first study (post-anti-PD–1)\textsuperscript{359} most closely represent patients in the C−144−01 study because they received prior anti-PD–1 treatment while the other studies did not. Second, the applicant stated that response rates to chemotherapy, including DTIC, in recent phase 3 melanoma trials ranged from 4% to 10%.\textsuperscript{360,361} Also included in the application is a summary of results from six studies in patients treated with a DTIC monotherapy in advanced or metastatic melanoma prior to checkpoint inhibitor FDA approval which showed ORRs ranging from 5%–20%.

Next, the applicant discussed the efficacy results from the C−144−01 study. The applicant stated that regardless of location of tumor resected and BRAF mutational status, and across ages (20–79), patients responded to lifileucel therapy. Among patients in cohort 2 (n=66) there was an ORR of 36% (95% CI 25, 49) and a DCR of 80% (95% CI 69, 89). When considering best overall response, two patients (3%) achieved complete response (CR). 22 patients (33%) achieved partial response (PR). 29 patients (44%) achieved stable disease, 9 patients (14%) had progressive disease, and 4 patients (6%) were non-evaluable. The applicant highlighted that the ORR (36.5% for those less than 65 years and 35.7% for those 65 and older) and DCR (71.2% for those less than 65 years and 78.6% for those 65 and older) were consistent across age groups. The applicant contends that these results following the one-time, single infusion of lifileucel represent a substantial improvement over chemotherapy which offers poor ORR of 4%–10%.\textsuperscript{362,363} Next, the applicant asserted that, because the median duration of response (DOR) had not been reached at a median follow-up of 18.7 months, the treatment effect will be durable and provide long-term benefit to those treated with lifileucel. The applicant stated that at the median follow-up, 50% (n=12) of responders showed ongoing response to lifileucel. The applicant added that the median DOR for treatment with DTIC is 5 to 6 months.\textsuperscript{364,365} and that retreatment with an immune checkpoint inhibitor or chemotherapy has demonstrated a median overall survival of around 7–8 months.\textsuperscript{366,367}

Lastly, the applicant stated that the safety profile of lifileucel was consistent with the underlying advanced disease and the known toxicities associated with the single course of lymphodepleting preconditioning regimen and IL–2. The applicant stated that all patients experienced at least one treatment-emergent adverse event (AE) during the study with the most common adverse event of any grade being hematologic along with chills, pyrexia, fatigue, tachycardia, and hypotension.\textsuperscript{368} The applicant added that the most common grade 3/4 TEAEs included thrombocytopenia (82%), anemia (56%), febrile neutropenia (55%), neutropenia (39%), hypophosphatemia (35%), leukopenia (35%), and lymphopenia (32%),\textsuperscript{369} which were consistent with the lymphodepletion regimen and known profile of IL–2.\textsuperscript{370,371} Of the patients, 1 patient died due to intra-abdominal hemorrhage reported as possibly related to TIL and one due to acute respiratory failure.

assessed as not related to TIL. The applicant stated that there was no difference in the incidence of TEAEs (for example any grade, among grades 3 to 4, and among grade 5) in patients 65 or older as compared to those younger than 65. Furthermore, the applicant stated that AEs occurred and generally resolved within the first 14 days following TIL infusion and IL–2 administration, during which time patients typically remained in the inpatient setting.

In support of its claims regarding substantial clinical improvement, the applicant submitted four additional pieces of evidence. First is an article which describes the tumor-infiltrating lymphocytes (TIL) manufacturing process, the mechanism of action of these products, what the authors identify as clear advantages of TIL in the treatment of solid tumors, and lastly the results of C–144–01. The authors stated that this onetime autologous treatment involves a product individually derived for each patient, is not selected for the recognition of shared antigens that would be expressed in normal tissues, and is specific to the tumor neoantigens, reducing the risk for autoimmune toxicity. The authors also stated that the TIL mechanism of action does not rely on engineered receptors but maintains some physiologic control and avoids hyperactivation, which therefore suggests that TIL offers a different safety profile compared to CAR T-cell products or ICIs.

The second piece of evidence provided by the applicant is a presentation given at the 2020 ASCO annual meeting which, per the applicant, focused on the C–144–01 study design, overview, patient procedures, TIL manufacturing, and patient characteristics of cohort 2. The presentation asserts, as the applicant has previously, that there are currently no approved agents for patients with metastatic melanoma whose disease progressed after ICIs and BRAF/MEK inhibitors. The presentation repeats study design, patient characteristics of cohort 2, safety outcomes, and efficacy outcomes, as previously described by the applicant. The presentation states that the adverse event profile was consistent with the underlying advanced disease and the safety profile of the lymphodepletion and IL–2 regimen and adds that the median number of IL–2 doses administered was six. The author concluded that lifileucel had demonstrated potential efficacy and durability of response for patients with metastatic melanoma and that it represented a viable therapeutic option warranting further investigation (that is, pivotal Cohort 4).

The applicant next submitted an abstract from a poster presentation that discusses the manufacturing process and the previously discussed study C–144–01. The presentation adds that tumors resected at local institutions were processed in central Good Manufacturing Practice (GMP) facilities for TIL production in a 22-day process. Final TIL infusion product was cryopreserved and shipped to sites. Patients received one week of cyclophosphamide/fludarabine preconditioning lymphodepletion, a single lifileucel infusion, followed by up to 6 doses of IL–2. The authors conclude by stating that response per IRC assessment and concordance between investigator read ORR and IRC will be reported.

Lastly, the applicant submitted a peer-reviewed and published post summary presented at the Society for Melanoma Research 2019 annual meeting that discusses the results of the C–144–01 study as previously discussed by the applicant and other presentations. The author added that TIL therapy uses a patient’s own immune cells to attack cancer. Tumor-infiltrating lymphocyte cells are extracted from a patient’s own tumor tissue, expanded through a proprietary process, and infused back into the patient. After infusion, tumor-infiltrating lymphocytes reach tumor tissue, where they attack tumor cells. Lastly the author concluded that lifileucel treatment resulted in a 36.4% overall response rate with a median duration of response having not been reached after a median of one year in patients with heavily pretreated, metastatic melanoma with high baseline disease burden who received prior anti-PD–1 and BRAF/MEK inhibitors.

After review of the information provided by the applicant, we have the following concerns concerning the substantial clinical improvement criterion. We note that results provided by the applicant are based on an ongoing phase two trial, C–144–01, and that these are potentially partial results from which we may not be able to draw end conclusions. We also note the potential for overestimating treatment effects when trials stop early or report interim results.

We question the selection of ORR as the primary outcome, which combines the results of complete and partial responders. Specifically, we question if the results experienced by those who are complete responders may substantially differ from those who are partial responders. We also question the appropriateness of combining these two groups together. Further, we note that the applicant used a surrogate endpoint (ORR) rather than overall survival or other measure. We believe that this measure may not be the most appropriate measure with which to evaluate substantial clinical improvement in this patient population because it may not capture patients’ clinical experience as fully as a measure of overall survival at some later time point. We are seeking public comment on whether the ORR is an appropriate measure of efficacy of this and other treatments when considering substantial clinical improvement.

---


Lastly, we note that a historical control is used for all of the studies provided and that the analyses using this historical control do not account for baseline differences between the groups being compared. This makes it difficult to determine if the results seen are due to the treatment, random occurrences, or bias. Further, we note that the patient sample or samples used to construct the historical control may not be representative of the C–144–01 cohort. We are unable to verify the appropriateness of this historical control because the evidence describing the historical control takes the form of abstracts or was not provided.

We are inviting public comments on whether lifileucel meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for lifileucel.

k. Narsoplimab

The Omeros Corporation submitted an application for new technology add-on payments for narsoplimab for FY 2022. Narsoplimab is a fully human monoclonal antibody for the treatment of HSCT–TMA, also known as transplant-associated thrombotic microangiopathy (TA–TMA), for which the applicant has submitted a Biologics License Application (BLA). According to the applicant, narsoplimab inhibits mannann-binding lectin serine protease 2 (MASP–2), the effector enzyme of the lectin pathway of the complement (MASP–2), the effector enzyme of the lectin pathway of the complement system, and activation of the lectin pathway that prevents complement-mediated inflammation and exhibits anticoagulant effects while leaving intact the respective functions of the classical and alternative pathways of innate immunity. According to the applicant, there are currently no FDA-approved products indicated for the treatment of hematopoietic stem cell transplantation-associated thrombotic microangiopathy (HSCT–TMA).

According to the applicant, HSCT–TMA is a lethal complication of hematopoietic stem cell transplantation that results in thrombosis in the small blood vessels, leading to organ failure.285 286 287 According to the applicant, clinical guidelines for the treatment of HSCT–TMA are being developed by members of the American Society for Transplant and Cellular Therapy (ASTCT) and are expected to be published in 2021. The applicant stated that current management of HSCT–TMA includes modification or cessation of any immune-suppressive regimen, appropriate treatment of infections and/or graft-versus-host disease (GVHD) if present, aggressive control of hypertension, and other supportive therapy as deemed appropriate by the treating physician.288 However, according to the applicant, the withdrawal of immuno-suppressive therapies and ongoing monitoring for resolution of TMA symptoms has been determined to be ineffective.289 The applicant stated that there are multiple off-label treatments for HSCT–TMA which have either not been reviewed by the FDA or have been reviewed and not deemed adequate for registration purposes; these unapproved treatments include therapeutic plasma exchange (TPE), eculizumab, defibrotide sodium, rituximab, and vincristine sulfate. The applicant asserted that available evidence for agents used off-label to treat HSCT–TMA is derived from observational studies and case series with mixed results, and none of the agents have been evaluated for efficacy or safety in a robust clinical trial in patients with HSCT–TMA.290 In summary, the applicant stated with regard to these unapproved therapies that: (1) The use of TPE is based on the extrapolation of its effectiveness for thrombocytopenic purpura with poor outcomes leading the Blood and Marrow Transplant Clinical Trials Network Toxicity Committee in 2005 to recommend that TPE not be considered as a standard of care for HSCT–TMA;291 (2) eculizumab is a C5 inhibitor that blocks activation of the terminal cascade of complement292 of which the use is constrained by lack of efficacy and safety evaluations by the FDA293 and associated increased susceptibility to infections;294 295 296 297 (3) defibrotide (Defitelio®), an oligonucleotide mixture with profibrinolytic properties whose mechanism of action has not been fully elucidated298 is not approved by the FDA for the treatment of HSCT–TMA nor considered a standard of care; (4) rituximab (Rituxan®), a monoclonal antibody that targets the CD20 antigen expressed on the surface of pre-B and mature B-lymphocytes,299 is not approved by the FDA for the treatment of HSCT–TMA; and (5) Vincristine sulfate, a vinca alkaloid isolated as a 1:1 sulfate salt from the periwinkle plant is not approved by the FDA for the treatment of HSCT–TMA.290

With respect to the newness criterion, the applicant stated in its application that it is in the process of completing a rolling submission of a Biologics License Application (BLA) to the FDA for narsoplimab for the treatment of HSCT–TMA. According to the applicant, narsoplimab has received Orphan Drug designation and Breakthrough Therapy Designation from FDA for the treatment of patients with HSCT–TMA who have persistent thrombotic microangiopathy despite modification of immuno-suppressive therapy. The applicant submitted a request for approval for a unique ICD–10–CM code for HSCT–TMA and an


ICD–10–PCS code for the administration of narsoplimab: there are currently no ICD–10–CM codes that describe HSCT–TMA or ICD–10–PCS codes that describe narsoplimab.

If a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant asserted that narsoplimab has a unique mechanism of action as it is the first therapeutic to target mannose-binding lectin serine protease 2 (MASP–2) and the first to inhibit the lectin pathway of the complement system. The applicant stated that MASP–2 inhibition specifically blocks the lectin pathway of complement but does not inhibit the classical and alternative pathways, leaving the complement system’s effective function and adaptive immunity intact, which is important for fighting infection. According to the applicant, the mechanism of action of narsoplimab not only results in inhibition of lectin pathway-mediated activation of complement, but also blocks the MASP–2 mediated procoagulant activities in the coagulation cascade. The procoagulant effects of MASP–2, independent of its role in the complement system, include the conversion of prothrombin to thrombin as well as the activation of Factor X to Xa. In addition, MASP–2 is activated by fibrin and activated platelets, further augmenting a procoagulant state. The applicant asserted that by inhibiting these procoagulant activities of MASP–2, narsoplimab provides important anticoagulant benefits, without affecting bleeding parameters (that is, prothrombin time, activated partial thromboplastin time, international normalized ratio, or bleeding time).

According to the applicant, narsoplimab is the only drug that addresses all the components of HSCT–TMA and is the only product that inhibits complement activation and has anticoagulant activity. Therefore, the applicant asserts that the mechanisms of action of narsoplimab differ from that of the products occasionally used off-label: eculizumab, defibrotide sodium, rituximab, and vincristine.

With respect to the second criterion, whether a product is assigned to the same or different MS–DRG, the applicant stated that patients who receive narsoplimab will be assigned to the same DRGs as patients who are diagnosed with HSCT–TMA/transplant-associated thrombotic microangiopathy (TMA) regardless of the treatment. With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant stated that narsoplimab treats a different disease than existing technologies. According to the applicant, when treating HSCT–TMA, clinicians may rely on approaches that have limited efficacy such as to reduce or discontinue anti-GVHD therapies (for example, calcineurin inhibitors), initiate therapeutic plasma exchange (TPE), and/or administer anti-CD20 antibody therapies, terminal complement inhibitors and/or oligonucleotide therapies. The applicant stated that narsoplimab will be the first technology specifically indicated to treat HSCT–TMA, according to the applicant, existing products that are currently used off-label to treat HSCT–TMA patients are indicated for the treatment of other distinct diseases. Eculizumab is indicated for: (1) The treatment of patients with paroxysmal nocturnal hemoglobinuria (PNH) to reduce hemolysis; (2) the treatment of patients with atypical hemolytic uremic syndrome (aHUS) to inhibit complement-mediated thrombotic microangiopathy; (3) the treatment of anti-acetylcholine antibody-positive generalized myasthenia gravis; and (4) the treatment of anti-aquaporin-4 (AQP4) antibody-positive neuromyelitis optica spectrum disorder (NMOSD). Defibrotide sodium is indicated for the treatment of adult and pediatric patients with hepatic veno-occlusive disease (VOD) with renal or pulmonary dysfunction following HSCT. The applicant further asserted that HSCT–TMA is different from aHUS due to varying underlying causes [that is, Shiga toxin infection, genetic mutation], its association with receipt of a stem cell transplant and associated endothelial cell injury, and aHUS resulting from mutations and/or polymorphisms in complement genes rather than having received an HSCT. In regard to VOD, the applicant asserts that while this patient population is similar to HSCT–TMA patients with regard to both having received HSCT, VOD is a separate disease affecting only the liver whereas HSCT–TMA is a multi-factorial disease impacting many organ systems, such as the kidneys, the lungs, the CNS and the gastrointestinal tract. Furthermore, the applicant summarized key distinctions between HSCT–TMA and the diseases for which

the other off-label therapeutics are indicated (eculizumab, defibrotide sodium, plasmapheresis with fresh frozen plasma and rituximab). According to the applicant, HSCT–TMA is associated with HSCT endothelial cell injury, has unique triggers such as immune dysregulation caused by infection, chemotherapy, and GVHD, and involves the initiation of the complement system including the lectin pathway. Atypical hemolytic uremic syndrome (aHUS), treated by eculizumab, is associated with unchecked abnormal activation of alternative complement system due to genetic mutations in complement factors or inhibitory autoantibodies to factor H and I and has an onset that is idiopathic or secondary to triggers such as infection, fever, pregnancy, malignant hypertension, transplant, and diarrhea illnesses. Veno-occlusive disease (VOD), treated by defibrotide sodium, is a complication observed after HSCT where sinusoidal endothelial cells and hepatocytes in zone 3 of the hepatic acinus are damaged by toxic metabolites generated during the conditioning regimen. Thrombotic microangiopathypurpura (TTP), treated by plasmapheresis with fresh frozen plasma and rituximab, is characterized by an ADAMTS–13 deficiency that is not commonly seen in HSCT–TMA with decreased ADAMTS activity due to genetic alterations to the gene or presence of inhibitory autoantibodies.

In summary, the applicant believes that narsoplimab is not substantially similar to other currently available therapies and/or technologies and meets the “newness” criterion. We note that the applicant asserts that there are no FDA-approved products indicated for the treatment of HSCT–TMA and we are inviting public comment on whether narsoplimab therefore has a unique mechanism of action. In addition, we note that although the cause or triggers of thrombotic microangiopathy may be different between HSCT and for example HUS or TTP, the resulting disease may be similar. We welcome public comments on whether HSCT–TMA is a similar disease to other forms of TMA.

We are inviting public comments on whether narsoplimab is substantially similar to other currently available therapies and/or technologies and whether this technology meets the newness criterion.

With regard to the cost criterion, the applicant provided the following analysis to demonstrate the technology meets the cost criterion. The applicant stated that due to what it described as a lack of sufficient coding in the HSCT–TMA space, the applicant provided multiple scenarios to show that narsoplimab meets the cost criterion. The applicant stated they are not requesting that narsoplimab map to a new or different MS–DRG.

The applicant used the full calendar year 2019 National Medicare 100% inpatient Limited Dataset to identify patients with a combined diagnosis of history of stem cell transplantation (SCT, ICD–10 code Z94.84) OR complications of stem cell transplant (ICD–10 code T86.5) AND thrombotic microangiopathy (TMA, ICD–10 code M31.1) OR hemolytic-uremic syndrome (HUS, ICD–10 code D59.3). Claims from PPS-exempt hospitals were excluded. In the base case analysis where all MS–DRGs were included, a total of 83 cases across 38 MS–DRGs were identified. The applicant imputed a case count of 11 for those MS–DRGs with fewer than 11 cases, which increased the number of claims from 83 to 396 because all MS–DRGs had fewer than 11 claims. The applicant then varied this initial analysis in two ways. The applicant first calculated a case weighted threshold of $272,861 in scenario one of the sensitivity analyses one and two varied the reduction for the charges related to the prior technology to 25 percent and 50 percent of prior related therapy charges, respectively, which are possibly tied to decreased length of stay and/or decreased ICU utilization. Second, the applicant provided four scenarios which varied the price of narsoplimab from zero to three greater values.

The applicant first calculated a case weighted threshold of $96,810 for all scenarios based upon the dollar threshold for each MS–DRG grouping and the proportion of cases in each MS–DRG. The applicant then calculated the average charge per case. The applicant stated that because narsoplimab is an adjunctive therapy, no charges for a prior technology or a technology being replaced were removed. In the base case analysis, no charges related to the prior technology were removed because narsoplimab is not anticipated to offset standard of care costs. However, according to the applicant, because of a reduction in complications leading to mortality and other clinically significant complications, narsoplimab is anticipated to decrease the rate of hospitalization and length of stay. Therefore, two sensitivity analyses were included which removed 25 percent and 50 percent of prior related therapy charges which could potentially be related to a decrease in length of stay and/or decrease in ICU utilization in sensitivity analyses one and two, respectively. The applicant stated the 50% charge reduction analysis was performed as an extreme analysis to examine the unlikely possibility that narsoplimab offsets a considerable amount of costs associated with treating TMA. Because of the reduction in complications leading to mortality and other clinically significant complications, the applicant asserted that for many with long-term sequelae, narsoplimab is anticipated to decrease the rate of hospitalization and length of stay.

Next the applicant calculated the average standardized charge per case using the FY 2021 IPPS/LTCH PPS final rule Impact file. The 2-year inflation factor of 13.2% (1.13218) was obtained from the FY 2021 IPPS/LTCH PPS final rule and applied to the average standardized charge per case.

To determine the charges for narsoplimab, the applicant converted cost to charges by dividing by the FY 2021 IPPS/LTCH PPS final rule national average drug CCR of 0.187. No charges related to the use of the technology were added by the applicant because utilization of narsoplimab is not anticipated to result in incremental costs. The applicant then calculated the final inflated average case-weighted standardized charge per case by adding the charges for the technology to the inflated average standardized charge per case. In the base analysis where a technology related price of $0 was used, the applicant determined a final inflated average case-weighted standardized charge per case of $363,815, which exceeds the average case-weighted threshold amount of $96,810. In the same base analysis, the applicant determined a final inflated average case-weighted standardized charge per case of $272,861 in scenario one of the sensitivity analyses, which exceeds the average case-weighted threshold amount of $96,810. Lastly, in the same base analysis, the applicant determined a final inflated average case-weighted standardized charge per case of $181,908 in scenario two of the sensitivity analyses, which exceeds the average case-weighted threshold amount of $96,810. The applicant then provided a secondary cost analysis where the price of narsoplimab the average of the three greater values used as the charges for the technology, and identified a final inflated average case-weighted standardized charge per case of $898,574, $807,621, and $716,667 in the base, 25 percent sensitivity, and 50 percent sensitivity analyses respectively.

We note that in its application, the applicant only provided, in Excel format, the primary base analysis without sensitivity analyses. We are therefore unable to verify all other analyses, to include the sensitivity
analyses, discussed in this section and in the application. The applicant includes many MS–DRGs which are defined by other factors which may or may not be related to the intended indication for narsoplimab. For instance, the applicant identified MS–DRG 193 (Simple Pneumonia and Pleurisy with MCC) for inclusion in the cost analysis. Therefore, we are uncertain if the cases identified in the preceding cost analysis adequately identify potential cases eligible for narsoplimab. We are seeking public comment with regard to whether the MS–DRGs used in these cost analyses are appropriately representative of the cases that would be eligible for use of the technology. We invite public comments on whether narsoplimab meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that narsoplimab represents a substantial clinical improvement over existing technologies. According to the applicant, compared to the current standard of care, narsoplimab demonstrates a substantial clinical improvement for the treatment of HSCT–TMA because it fulfills an unmet need for patients, demonstrated a statistically significant complete response rate in the pivotal clinical trial, provides a reduction in clinically significant adverse events, resulted in higher 100-day survival rates, decreases the rate of subsequent therapeutic interventions, and is anticipated to decrease the rate of hospitalizations and length of stay.

The applicant asserts that narsoplimab offers a treatment option for a patient population unresponsive to current available treatments. According to the applicant, the FDA awarded narsoplimab Breakthrough Therapy designation after reviewing literature for patients similar to those in the applicant’s pivotal trial. The applicant states that if approved by the FDA, narsoplimab will be the only drug or biologic approved for the treatment of HSCT–TMA.

In support of the assertion that narsoplimab offers a treatment option for patients unresponsive to currently available treatments, the applicant provided an abstract of their pivotal trial, a single-arm trial of 28 adult HSCT–TMA patients.416 The abstract states that patients who had not responded to immunosuppression modification and who had thrombocytopenia, evidence of microangiopathic hemolytic anemia, and increased creatinine were included in the study. The applicant adds that patients with mild disease were excluded from the study. Patients received narsoplimab intravenously once weekly for four or eight weeks with a 6-week follow-up period. The primary endpoint was a response-based composite measure requiring improvement both in laboratory TMA markers (platelet count and Lactate Dehydrogenase [LDH]) and in clinical status (that is, organ function). Secondary endpoints were survival and changes in laboratory TMA markers. The applicant asserts that a complete response rate of 15% was identified in conjunction with the FDA as the threshold to demonstrate efficacy for narsoplimab. The applicant states that narsoplimab resulted in a 61% complete response rate (CRR) in patients with HSCT–TMA who received at least one dose of the drug; the per protocol analysis (that is, patients who received at least the per-protocol-specified 4 weeks of treatment) resulted in a 74% complete response rate. The applicant states that these complete response rates are higher than the expected response of 10% to 15% in the absence of narsoplimab.

In applying for Breakthrough Therapy designation, the applicant states that a literature review was conducted to identify studies in a patient population similar to that in the pivotal trial. Searching in PubMed using pre-identified search terms (transplant-associated thrombotic microangiopathy; thrombotic microangiopathy stem cell; and cancer-associated thrombotic microangiopathy), the applicant identified nine references that met inclusion criteria and excluded an unknown number of articles because the patient data was not included in the publication. Studies were included if they were published in the year 2000 or later and included: (1) Survival data for patients; (2) documentation that immunosuppression was modified; and (3) documentation of patient response to immunosuppression modification.

Of the nine studies included, there was a mean sample size of 7.4 ranging from 1–17 totaling 67 participants. The applicant identified a median overall survival of 21 days (95% CI 15–29) which ranged from 7 to 43 days. The applicant compared these results to those of the pivotal trial, where 16 of 28 patients died with a median overall survival of 274 days (p < 0.0001) compared via a log-rank test to that identified in the literature review. The applicant stated that a one-hundred-day survival post HSCT–TMA diagnosis was observed in 68% (n=28) of the full analysis set, 83% (n=23) in the patients treated per the protocol, and 94% (n=17) of complete responders.

The applicant asserted that in a high-risk study population, narsoplimab demonstrated substantial clinical improvement compared to current treatment approaches, meaningfully decreasing the rates of clinically significant complications, including mortality, and reducing the need for subsequent interventions; as a result, narsoplimab is anticipated to decrease the rate of hospitalization and length of stay. The applicant stated that the primary objectives in the pivotal study for narsoplimab were to evaluate safety, tolerability, and response-based efficacy requiring improvement in TMA laboratory markers of platelet count and LDH and improvement in clinical status on the basis of transfusions, renal, pulmonary, gastrointestinal, and neurological symptoms. The applicant stated that platelet count on average increased from baseline over time, LDH decreased from baseline, haptoglobin steadily increased from baseline, and hemoglobin increased over time with the use of narsoplimab. The applicant reported that overall 48% and 55% of patients had freedom from TMA and blood cell and platelet transfusions, respectively. The applicant asserted that due to the decreased rate of complications, narsoplimab has the potential to lead to decreased hospital length of stay as well as decreased intensive care usage.

Lastly, the applicant asserted that narsoplimab is well tolerated with no treatment related complications. The applicant stated that the most common adverse events in the pivotal trial were nausea, vomiting, diarrhea, hypokalemia, neutropenia, and fever, which are comparable to those typically seen in the post-transplant population. Six deaths (21%) occurred, collectively, from sepsis, AML progression, and graft-versus host disease, which according to the applicant are causes of death common in patients with HSCT.

In addition to the previously discussed pivotal trial abstract, the applicant submitted four additional citations (three case studies and one case series) in support of the substantial clinical improvement of narsoplimab. The first citation is described by the

applicant as a case study of an 18-year-old patient with biopsy-proven HSCT–TMA of the gastrointestinal tract which required transfusions. The applicant states that the patient received narsoplimab which led to the resolution of TMA and all transfusions were discontinued. The applicant submitted an educational agenda in support of this citation which does not provide any additional information.148

The second citation concerns the results of a case study of a 14-year-old patient who did not tolerate eculizumab for the treatment of HSCT–TMA and was treated successfully with OMS721 (i.e., narsoplimab). The applicant submitted the abstract which states that after receiving allogeneic HSCT, the patient began to show progressive deterioration.419 The patient was treated twice with eculizumab at months seven and eleven both resulting in pulmonary edema. The patient next received narsoplimab after which he began to improve and did not experience any adverse events.

The third citation is a presentation given at the European Society for Blood and Marrow Transplantation in 2017 which discusses a 46-year-old patient with T-acute lymphoblastic leukemia who received HSCT. The applicant states this case study is about a patient who underwent HSCT. The latter of whom underwent HSCT, the latter of which was HIV positive. The 19-year-old patient received 18 doses of narsoplimab showing favorable response with resolution of gastrointestinal bleeding and microangiopathic hemolytic anemia. The 48-year-old patient received eight doses of narsoplimab, but despite partial improvement remained on transfusions and dialysis until sudden death on day 31.

After review of the provided information and citations we have concerns with regard to the substantial clinical improvement criterion. Firstly, the sample from which the applicant draws conclusions is small (sample size of pivotal trial 28, plus five case studies). Furthermore, we are unable to verify the methods, results, and conclusions of these studies as the applicant only provided evidence in the form of abstracts and presentations. For example, one citation provided by the applicant in the form of a non-peer-reviewed conference poster details interim results from which appear to be the pivotal trial.

With regard to methodological concerns, first, we note the potential for overestimating treatment effects when trials stop early or report interim results.422 423 424 Second, the authors pool data from an historical cohort of patients drawn from published literature to calculate survival rates in patients with HSCT–TMA and then retrospectively compare these rates to the survival in their treated cohort. We are unable to evaluate the appropriateness of this historical comparison cohort based on the evidence provided in the form of two citations, an abstract and a poster.426 This analysis may not adequately account for baseline differences between the patients treated with narsoplimab and the patients across the articles from which a historical control was developed. In addition, we note that we may lack the ability to evaluate whether this literature review to obtain the historical control effectively identified the historical control, as the applicant only provided general details on how the search was performed.

We further note that the study design described in the pivotal trial, upon which the applicant bases its claims for substantial clinical improvement, was not appropriately designed to test for comparisons with another treatment such as an historical control. Furthermore, the methods utilized in the pivotal trial do not lend themselves to making statistical inferences based on the provided protocol (for example, no power assessment performed, no assessment for multiple comparisons, no pre-identified alpha).

We are inviting public comments on whether narsoplimab meets the substantial clinical improvement criterion.

We received one written comment in response to the New Technology Town Hall meeting notice published in the Federal Register. The commenter stated that they are enthusiastic about the results of the single arm open-label trial OMS721–TMA–001 evaluating narsoplimab for the treatment of HSCT–TMA. The commenter added that narsoplimab offers a treatment option for these high-risk patients that appears to markedly increase complete response rates with a substantial reduction in clinically significant complications including mortality. The commenter stated that the approval of the application for new technology add-on payments will help ensure appropriate patients will get the benefit of narsoplimab for treatment of HSCT–TMA.

Response: We appreciate the commenter’s input and will take this comment into consideration when deciding whether to approve new technology add-on payments for narsoplimab for FY 2022.

1. NexoBrid™

Vericel Corporation submitted an application for NexoBrid™ for new technology add-on payments for FY 2022. According to the applicant, NexoBrid™ is a novel, non-surgical option for eschar removal (debridement). Eschar is the dead tissue and dried secretions from a skin wound following a burn, and removal is essential for wound healing. According to the applicant, NexoBrid™ is a mixture of proteolytic enzymes (enriched in bromelain) and has been developed for patients with deep partial thickness (DPT) and/or full thickness

---


151 applicant as a case study of an 18-year-old patient with biopsy-proven HSCT–TMA of the gastrointestinal tract which required transfusions. The applicant states that the patient received narsoplimab which led to the resolution of TMA and all transfusions were discontinued. The applicant submitted an educational agenda in support of this citation which does not provide any additional information.148

The second citation concerns the results of a case study of a 14-year-old patient who did not tolerate eculizumab for the treatment of HSCT–TMA and was treated successfully with OMS721 (i.e., narsoplimab). The applicant submitted the abstract which states that after receiving allogeneic HSCT, the patient began to show progressive deterioration.419 The patient was treated twice with eculizumab at months seven and eleven both resulting in pulmonary edema. The patient next received narsoplimab after which he began to improve and did not experience any adverse events.

The third citation is a presentation given at the European Society for Blood and Marrow Transplantation in 2017 which discusses a 46-year-old patient with T-acute lymphoblastic leukemia who received HSCT. The applicant states this case study is about a patient who underwent HSCT. The latter of whom underwent HSCT, the latter of which was HIV positive. The 19-year-old patient received 18 doses of narsoplimab showing favorable response with resolution of gastrointestinal bleeding and microangiopathic hemolytic anemia. The 48-year-old patient received eight doses of narsoplimab, but despite partial improvement remained on transfusions and dialysis until sudden death on day 31.

After review of the provided information and citations we have concerns with regard to the substantial clinical improvement criterion. Firstly, the sample from which the applicant draws conclusions is small (sample size of pivotal trial 28, plus five case studies). Furthermore, we are unable to verify the methods, results, and conclusions of these studies as the applicant only provided evidence in the form of abstracts and presentations. For example, one citation provided by the applicant in the form of a non-peer-reviewed conference poster details interim results from which appear to be the pivotal trial.

With regard to methodological concerns, first, we note the potential for overestimating treatment effects when trials stop early or report interim results.422 423 424 Second, the authors pool data from an historical cohort of patients drawn from published literature to calculate survival rates in patients with HSCT–TMA and then retrospectively compare these rates to the survival in their treated cohort. We are unable to evaluate the appropriateness of this historical comparison cohort based on the evidence provided in the form of two citations, an abstract and a poster.426 This analysis may not adequately account for baseline differences between the patients treated with narsoplimab and the patients across the articles from which a historical control was developed. In addition, we note that we may lack the ability to evaluate whether this literature review to obtain the historical control effectively identified the historical control, as the applicant only provided general details on how the search was performed.

We further note that the study design described in the pivotal trial, upon which the applicant bases its claims for substantial clinical improvement, was not appropriately designed to test for comparisons with another treatment such as an historical control. Furthermore, the methods utilized in the pivotal trial do not lend themselves to making statistical inferences based on the provided protocol (for example, no power assessment performed, no assessment for multiple comparisons, no pre-identified alpha).

We are inviting public comments on whether narsoplimab meets the substantial clinical improvement criterion.

We received one written comment in response to the New Technology Town Hall meeting notice published in the Federal Register. The commenter stated that they are enthusiastic about the results of the single arm open-label trial OMS721–TMA–001 evaluating narsoplimab for the treatment of HSCT–TMA. The commenter added that narsoplimab offers a treatment option for these high-risk patients that appears to markedly increase complete response rates with a substantial reduction in clinically significant complications including mortality. The commenter stated that the approval of the application for new technology add-on payments will help ensure appropriate patients will get the benefit of narsoplimab for treatment of HSCT–TMA.

Response: We appreciate the commenter’s input and will take this comment into consideration when deciding whether to approve new technology add-on payments for narsoplimab for FY 2022.

1. NexoBrid™

Vericel Corporation submitted an application for NexoBrid™ for new technology add-on payments for FY 2022. According to the applicant, NexoBrid™ is a novel, non-surgical option for eschar removal (debridement). Eschar is the dead tissue and dried secretions from a skin wound following a burn, and removal is essential for wound healing. According to the applicant, NexoBrid™ is a mixture of proteolytic enzymes (enriched in bromelain) and has been developed for patients with deep partial thickness (DPT) and/or full thickness
(FT) thermal burns. According to the applicant, NexoBrid™ has not yet received approval from FDA. The applicant further noted that NexoBrid™ was approved by the European Medicines Agency (EMA) in 2012 and is currently commercially available in many countries.

The applicant stated that timely, rapid debridement of eschar in burn patients is necessary for assessing the burn injury, initiating the wound healing process, and preventing further complications, such as local infection, sepsis and extension of the burn injury.427 428 429 The applicant stated that NexoBrid™ has been identified by the Biomedical Advanced Research and Development Authority (BARDA) as a critical medical countermeasure to address the public health emergency need for a debridement product for the treatment of burns in adults, especially for mass casualty events, where surgical capacity is limited, and rapid assessment of burn severity and intervention are imperative.430

The applicant stated that the current standard of care for burn debridement includes surgical and non-surgical approaches. The applicant stated that the surgical approach relies primarily on surgical tangential excision through use of sharp instruments such as scalpels and dermatomes.431 432 The applicant stated that surgical procedures include minor excision, avulsion, hydrosurgery (for example, VERSAJET™), scraping, brushing, dermabrasion, and excisions.433 The applicant stated that non-surgical standard of care treatments include enzymatic debridement such as clostridial collagenase ointment (example, SANTYL™), antimicrobial agents such as silver sulfadiazine (example, SILVADENE®), or various hydrogels.434 435 436 437 438 439

According to the applicant, NexoBrid™ is a biological and biologic product for topical use and is comprised of two components: The NexoBrid™ powder that contains the active pharmaceutical ingredient (API) and a Gel Vehicle. The NexoBrid™ API is a concentrate of proteolytic enzymes enriched in bromelain extracted from pineapple stems. The applicant stated that the mechanism of action of NexoBrid™ is mediated by the proteolytic activity of its enzymes and is associated with selective debridement of eschar and denatured collagen while sparing healthy tissue.

The applicant stated that according to the American Hospital Association (AHA) Coding Clinic, “Non-excisional debridement is coded with root operation ‘extraction’” .440 The applicant added that NexoBrid™ could be identified with ICD-10-PCS code series 0HD Extraction of Skin or 0JD Extraction of subcutaneous tissue and fascia. The applicant stated that it has not requested that its technology map to a new or different MS–DRG.

With respect to the newness criterion, the applicant stated they have not yet received FDA approval. The applicant submitted a Biologic License Application (BLA) for NexoBrid™ for FDA approval on June 30, 2020 on the basis of two pivotal Phase 3 clinical trials. In September 2020, the FDA accepted the application and communicated a PDUFA date of June 29, 2021.

The applicant indicated that the ICD–10–PCS code series for non-excisional debridement, 0HD (Extraction of Skin) or 0JD (Extraction of subcutaneous tissue and fascia) could be used to identify NexoBrid™ use. The applicant indicated that NexoBrid™ is not separately identified with a unique ICD–10–PCS code. The applicant submitted a request for an ICD–10–PCS code to uniquely identify the use of NexoBrid™ beginning in FY 2022.

As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would, therefore, not be considered “new” for purposes of new technology add-on payments.

With respect to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant stated that NexoBrid™ is unique due to the bromelain active ingredient, which is extracted from pineapple stems. The applicant claimed that a search of the FDA website for the key words “bromelain” and “pineapple” did not yield any approved applications under section 505(b)(1) of the Federal Food, Drug, and Cosmetic (FD&C) Act or section 351(a) of the Public Health Service (PHS) Act.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant did not address the question directly, but stated that no existing technology used now or previously is similar to NexoBrid™ that would be captured under burn MS–DRGs as identified in the following table.

<table>
<thead>
<tr>
<th>Current MS-DRG for Burns</th>
<th>MS-DRG Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>003</td>
<td>ECMO or Tracheotomy w MV &gt;56 Hours or Principal Diagnosis Except Face, Mouth, and Neck w Major O.R. Procedures</td>
</tr>
<tr>
<td>927</td>
<td>Extensive Burns or Full Thickness Burns w MV&gt;96 Hours w Skin Graft</td>
</tr>
<tr>
<td>928</td>
<td>Full Thickness Burn w Skin Graft or Inhalation Injury w/o CC/MCC</td>
</tr>
<tr>
<td>934</td>
<td>Full Thickness Burn w/o Skin Graft or Inhalation Injury</td>
</tr>
<tr>
<td>935</td>
<td>Non-Extensive Burns</td>
</tr>
</tbody>
</table>

440 American Hospital Association (AHA) Coding Clinic, Volume 2, number 1, 2015, pg 23
With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease, and the same or similar patient population when compared to an existing technology, the applicant stated that NexoBrid™ does treat the same patient population as existing approaches to eschar removal. The applicant further stated that the ability to use NexoBrid™ at the bedside offers an effective option for rapid eschar removal that avoids the operating room, and that the ability to use NexoBrid™ in delicate areas offers particular value in burn treatment. We have the following concerns regarding whether the technology meets the substantial similarity criteria and whether it should be considered new. While the applicant discussed the differences between NexoBrid™ and products made by other manufacturers, we note the applicant does not provide enough information regarding the composition of the proteolytic enzymes used within the NexoBrid™ active pharmaceutical ingredient, its mechanism of action, and how the ingredient(s) differs from other enzymatic debridement products on the market. Specifically, it is not clear whether the proteolytic enzyme is a type of collagenase similar to existing collagenase based enzymatic debridement products, since the applicant claimed that NexoBrid™ debrides denatured collagen in the wound. In addition, the applicant states that NexoBrid™ uses a new ingredient but does not explain how this represents a new mechanism of action. We also note that, while the applicant did not state so directly, we believe that patients treated using NexoBrid™ would be assigned to the same MS–DRGs as those patients who were treated with competitive products or services used for burns. We further note that the applicant did not suggest that NexoBrid™ was used to treat a different population from existing treatments.

We are inviting public comments on whether NexoBrid™ is substantially similar to other currently available therapies and/or technologies, and whether NexoBrid™ meets the newness criterion. With regard to the cost criterion, the applicant provided two scenarios: Scenario 1: without grafting, which excluded cases with an ICD–10–PCS code for replacement of skin, and Scenario 2: with grafting, which required at least one ICD–10–PCS code for replacement of skin. Under the first scenario, the applicant searched the FY 2019 MedPAR dataset for cases reporting ICD–10–CM diagnosis codes for second- or third-degree burns as a primary diagnosis, and an ICD–10–PCS code(s) for excision or extraction of skin or subcutaneous tissue and fascia; these criteria resulted in the identification of 347 cases mapping to three unique MS–DRGs. Under the second scenario, the applicant again searched the FY 2019 MedPAR dataset for the same ICD–10 codes but with an additional ICD–10–PCS code for replacement of skin. Under the second scenario, the applicant identified 1,283 cases mapping to five unique MS–DRGs. In the following tables the applicant lists the MS–DRGs to which cases are assigned in each scenario:

### Scenario 1 Burn with Excision or Extraction without Grafting

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>935</td>
<td>Non-Extensive Burns</td>
</tr>
<tr>
<td>934</td>
<td>Full Thickness Burn w/o Skin Graft or Inhalation Injury</td>
</tr>
<tr>
<td>928</td>
<td>Full Thickness Burn w Skin Graft or Inhalation Injury w CC/MCC</td>
</tr>
</tbody>
</table>

### Scenario 2 Burn with Excision or Extraction and Grafting

<table>
<thead>
<tr>
<th>MS–DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>928</td>
<td>Full Thickness Burn w Skin Graft or Inhalation Injury w CC/MCC</td>
</tr>
<tr>
<td>929</td>
<td>Full Thickness Burn w Skin Graft or Inhalation Injury w CC/MCC</td>
</tr>
<tr>
<td>935</td>
<td>Non-Extensive Burns</td>
</tr>
<tr>
<td>927</td>
<td>Extensive Burns or Full Thickness Burns w MV &gt;96 Hours w Skin Graft</td>
</tr>
<tr>
<td>003</td>
<td>ECMO or Tracheostomy w MV &gt;96 Hours or Principal Diagnosis Except Face, Mouth and Neck w Major O.R. Procedures</td>
</tr>
</tbody>
</table>

With respect to the cost criterion, the applicant conservatively estimate the charges that potentially may be avoided through the use of NexoBrid™. After standardizing the charges, the applicant applied what it indicated was the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges of 13.1 percent. We note that the inflation factor was 13.2 percent (1.13218) for FY 2021 (85 FR 59039), which would have resulted in higher inflated charges. To calculate the charges for the technology, the applicant divided the cost of the technology by the national average CCR for the Drugs cost center of 0.187 from the FY 2021 IPPS/LTCH PPS final rule. Under scenario one, the applicant calculated a final inflated case-weighted average standardized charge per case of $95,828, which exceeded the average case-weighted threshold amount of $55,536. Under scenario two, the final inflated average case-weighted standardized charge per case of $334,405 exceeded the average case-weighted threshold amount of $168,985. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount for both scenarios, the technology meets the cost criterion.
According to the applicant, NexoBrid™ is indicated for the treatment of thermal burns. The cost analysis performed by the applicant includes MS–DRG 003 (ECMO or Tracheostomy w MV >96 Hours or Principal Diagnosis Except Face, Mouth and Neck w Major O.R. Procedures), which per the applicant is appropriately representative of potential NexoBrid™ patients. However, MS–DRG 003 does not appear to be representative of the target patient population for NexoBrid™. We are seeking public comment on whether the use of this MS–DRG and others for the cost analysis appropriately reflects the potential cases treated by the technology.

We are inviting public comment on whether NexoBrid® meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that NexoBrid™ can be used in a patient population that is unresponsive to, or ineligible for currently available treatments because NexoBrid™ can be used at the bedside and is therefore an effective eschar removal option for patients for whom surgery or general anesthesia may be contraindicated. The applicant asserted that NexoBrid™ allows for the diagnosis of a medical condition in a manner different from existing technology because it allows for depth-of-burn diagnoses of indeterminant depth and/or mixed depth wounds. The applicant also asserted that NexoBrid™ represents a substantial clinical improvement due to significantly improved clinical outcomes in the following ways: (1) Reduction in clinically significant adverse events by reducing the surgical burden associated with surgical excision, reducing donor site morbidity due to reduced autografting, reducing blood loss due to adoption of a non-surgical approach, and reduced usage of surgical escharotomies; (2) decreased rate in a subsequent diagnostic or therapeutic intervention by reducing the need for surgical excision and reducing the need for autografts; (3) improved quality of life due to reduced scarring associated with reduction in autografting; and (4) NexoBrid™ is aligned with key benefits to elderly burn patients who may be too unwell for surgical excision.

The applicant asserted that because NexoBrid™ can be used at the bedside, it provides a unique non-surgical option for rapid, consistent eschar removal in patients for whom surgery or general anesthesia may be contraindicated. The applicant claimed that currently available non-surgical eschar removal procedures are generally considered inefficient, can result in a lengthy sloughing period, and have the potential for development of granulation tissue and increased infection and scarring.441 442 443

The applicant submitted two pivotal Phase 3 clinical trials to primarily support its claims of substantial clinical improvement. The DETECT study (NCT02148705) is a multi-center, multinational, assessor blinded, randomized, 3:3:1 controlled, three-arm study from which data is not yet publicly available. Per the applicant, this study aimed to demonstrate superiority of NexoBrid™ treatment over Gel Vehicle (placebo) control and standard of care treatment, in hospitalized adult subjects with DPT and/or FT thermal burn of 3–30% total body surface area (TBSA) and total burn wounds of no more than 30% TBSA. A total of 175 subjects were randomized in to the DETECT study with 169 subjects being treated with NexoBrid, SOC consisting of surgical and/or nonsurgical treatment as per the investigators’ discretion, or placebo.444 NCT00324311 is an earlier multi-center, open-label, randomized, controlled clinical trial including 156 patients aged 4–55 years with deep partial and full thickness burns covering 5–30% TBSA. Patients were randomly assigned to burn debridement with NexoBrid™ or standard of care, which included surgical excisional or non-surgical debridement.445

The applicant asserted that in patients with indeterminant partial-thickness and/or mixed depth burns, NexoBrid™ debridement allows for a more accurate assessment of burn depth. The applicant stated, “each additional non-autografted NexoBrid™-treated patient (relative to standard of care eschar removal) has an indeterminate superficial partial thickness wound that would otherwise have been incorrectly diagnosed as a deep partial thickness wound.” The applicant suggested that deep partial thickness wounds require autografting. The applicant noted that the Phase 3 clinical trial NCT00324311 of patients with DPT and FT thickness had burns ranging from 5–30%TBSA.446 The applicant claimed that it can be estimated that approximately 16.2% of NexoBrid™ treated wounds (34.1% autograft rate in standard of care group minus 17.9% autograft rate in the NexoBrid™ treated group) would have been autografted had other standard of care methods for burn debridement been used.

The applicant asserted that the use of NexoBrid™ as a non-surgical option for treatment reduces potential adverse events that may be associated with surgery or general anesthesia such as blood loss. The applicant noted that in the DETECT trial, median blood loss during eschar removal was significantly higher in the standard of care arm compared with NexoBrid™. It also noted that the NCT00324311 trial demonstrated smaller reductions in hemoglobin and hematocrit values before and after treatment in the NexoBrid™ arm compared to the standard of care arm.

The applicant asserted that the use of NexoBrid™ may reduce instances of surgical escharotomies which may be needed when a circumferential eschar produces a tourniquet effect that compromises circulation or movement.447 448 449 According to the applicant, this requires an emergency escharotomy involving incising through areas of burnt skin to release the eschar and its constrictive effects, restore distal circulation, and allow adequate ventilation. The applicant claimed that reducing the need for an escharotomy also reduces the need for subsequent surgical reconstruction of the escharotomy wound, and potential complications, including uncontrolled bleeding, incomplete release, damage to deep structures, functional deficits, and scarring.

To support the claim that NexoBrid™ reduces the time to eschar removal, the applicant asserted that NexoBrid™ has been shown in the two phase 3 multi-center, randomized-controlled trials to have a lower average time of eschar removal compared to the standard of

---

444 NexoBrid Draft Labeling Text
care, with the DETECT study demonstrating 1.0 day eschar removal versus 3.8 days and NCT00324311 demonstrating 2.2 days versus 8.7 days (p<0.0001) for treated and control groups respectively.\textsuperscript{450}

The applicant also included a systematic review and meta-analysis of clostridial collagenase ointment (CCO) studies by Pham, C. H., et al. to support its claim of decreased eschar removal time as compared to existing non-surgical therapies.\textsuperscript{451} Per the study, the reported average time to clean wound bed (complete eschar removal) for CCO ranged from 6 days to 9.3 days with daily dressing changes among the prospective studies included in the systematic review. We note that the literature review was limited to the efficacy and use of CCO in burn patients and did not discuss other standard of care therapies.

The applicant asserted that the use of NexoBrid\textsuperscript{TM} can lead to decreased need for surgical excision. The applicant stated that in a pooled analysis of both Phase 3 clinical trials, NexoBrid\textsuperscript{TM} exhibited lower incidence of surgical excision to complete eschar removal (26.9\% vs 70.6\%), lower mean percent wound area surgically excised (11.5\% vs 55.1\%), and a higher rate of complete eschar removal without rescue surgical excision (90.5\% vs 70.1\%) compared to standard of care. The applicant cited these results as proof of the tissue-sparing effects compared with standard of care. The applicant further stated that the NCT00324311 study\textsuperscript{452} showed that among patients with wounds comprised entirely of deep partial thickness (DPT) burns in this study, the incidence of excision or debridement after debridement was statistically significantly lower with NexoBrid\textsuperscript{TM} compared to standard of care (15.1\% vs 65.5\%, p<0.0001), and that the mean percent wound area excised was also statistically significantly lower with NexoBrid\textsuperscript{TM}, 14.6\% versus 44.5\% in standard of care group (p<0.0001). The applicant stated that in the DETECT study, the incidence of complete eschar removal in the NexoBrid\textsuperscript{TM} group was 93.35\% (70 of 75 patients) versus 100\% in the standard of care group (which included both surgical and non-surgical debridement) versus 4.0\% in the gel vehicle placebo group. The applicant stated that the incidence of excision to complete eschar removal was statistically significantly lower with NexoBrid\textsuperscript{TM}, 4.0\% versus 72\% for the standard of care group (p=0.0001).

The applicant asserted that the shorter time to complete eschar removal for patients treated with NexoBrid\textsuperscript{TM} has been shown to be associated with effective prevention of the subsequent need for autografting. The applicant stated that in the first published Phase 3 pivotal clinical trial NCT00324311,\textsuperscript{453} the autograft rate was 17.9\% in the NexoBrid\textsuperscript{TM}, the percent treated wound area autografted was also lower in the NexoBrid\textsuperscript{TM} group, 8.4\% vs 21.5\% in the standard of care group (p=0.0054).

The applicant further stated that among patients with at least one wound that was entirely a DPT burn, significantly fewer wound autografts were performed in the NexoBrid\textsuperscript{TM} group, 17.9\% (19/106 wounds) versus 34\% (30/88 wounds) in the standard of care group (p=0.0054). The applicant stated that in the single center prospective single-arm study of NexoBrid\textsuperscript{TM} demonstrated a reduced need for surgical excision as compared to the standard of care requiring 15\% of patients receiving NexoBrid\textsuperscript{TM} compared to 95\% of patients treated with the standard of care (excisional surgical debridement) requiring autografting (p=0.034).\textsuperscript{455} The single center controlled study of 20 face burns demonstrated a reduced need for autografting with NexoBrid\textsuperscript{TM}, with 15\% of patients receiving NexoBrid\textsuperscript{TM} compared to 95\% of patients treated with the standard of care (excisional surgical debridement) requiring autografting (p=0.034).\textsuperscript{456} The applicant also stated that among patients with partial thickness burns who were treated with NexoBrid\textsuperscript{TM} experienced a reduction in the need for autografting compared to patients treated with standard of care.\textsuperscript{454}

The applicant also stated that a prospective single-arm study of NexoBrid\textsuperscript{TM} showed that 25 patients with partial thickness burns who were treated with NexoBrid\textsuperscript{TM} experienced a reduction in the need for autografting compared to patients treated with the standard of care (p=0.0054). The applicant also cited studies comparing NexoBrid\textsuperscript{TM} to surgical debridement in hand and facial burns. The applicant stated that a single center controlled study of 40 hand burns demonstrated a reduced need for autografting with NexoBrid\textsuperscript{TM}, with 15\% of patients receiving NexoBrid\textsuperscript{TM} compared to 95\% of patients treated with the standard of care (excisional surgical debridement) requiring autografting (p=0.034).\textsuperscript{455} The single center controlled study of 26 face burns demonstrated a reduced need for autografting with NexoBrid\textsuperscript{TM}, with 15\% of patients receiving NexoBrid\textsuperscript{TM} compared to 77\% of patients treated with the standard of care requiring autografting (p=−0.002).\textsuperscript{456}

The applicant asserted that because the use of NexoBrid\textsuperscript{TM} reduces areas that require autografting, this results in decreased donor site morbidity, which is particularly useful for patients with limited donor site area (example, high total body surface area burns), or risk factors for delayed wound healing (example, advanced age).\textsuperscript{457,458}

Per the applicant, by selectively debriding only non-viable tissue, NexoBrid\textsuperscript{TM} reduces the area of burn that requires autografting compared to surgical excision and other non-surgical approaches of eschar debridement. Per the applicant, NexoBrid\textsuperscript{TM}’s selective debridement of non-viable tissue is especially useful in delicate areas such as face,\textsuperscript{459} hands,\textsuperscript{460}\textsuperscript{461} feet, and genitals which are difficult areas to excise eschar surgically.\textsuperscript{462,463} The applicant also claimed that the use of NexoBrid\textsuperscript{TM} results in decreased scarring from the reduced need for autografting.

The applicant asserted that the two single-center controlled trials discussed in this section, one of patients with hand burns\textsuperscript{464} and one of patients with


\textsuperscript{451} [Insert cite]


facial burns, demonstrated that cosmesis of the healed wound using NexoBrid® was comparable if not better than traditional surgical debridement (standard of care arm). In addition, per the applicant, a single arm prospective study of 36 patients showed that only 11.1% of patients treated with NexoBrid® developed hypertrophic scars.

In further support of their statements suggesting that the use of NexoBrid® results in reduced time to complete debridement, reduced need for surgery, and reduced need for autografting, the applicant submitted a literature review that identified studies published between 2012 and 2017 involving the use of NexoBrid® in deep partial and full thickness burns. In this article, studies were evaluated for proposed benefits of NexoBrid® and categorized under supporting evidence, contradicting evidence, and anecdotal opinions. Seven prospective studies met the inclusion criteria including four randomized controlled trials. Six proposed benefits associated with the use of NexoBrid® were extracted from the studies including reduced time to complete debridement, need for surgery, area of burns excised, need for autograft, time to wound closure, and improved scar quality. The authors of the literature review stated that most of the proposed benefits had strong supporting evidence from controlled trials as well as some anecdotal data. The authors further stated that for the proposed benefits of scar quality improvement and reduced time to wound healing, three sources and one anecdotal study provided refuting evidence. Incidence of pain was also evaluated and was mainly anecdotal, lacking formal objective assessment or cohort study.

Regarding the substantial clinical improvement criterion, we have the following concerns. We note that the applicant’s claims of superiority of NexoBrid® to standard of care debridement methods are non-specific because the studies cited were not designed to compare NexoBrid® to a specific non-surgical method or an enzymatic debridement product. In addition, we are unclear whether comparing NexoBrid® to a surgical treatment modality is the most appropriate comparator since mechanical means of debridement have different clinical indications, risks, and benefits compared to enzymatic debridement. We note that studies also did not demonstrate that NexoBrid® selectively debridges eschar and does not injure viable skin. In addition, it may be difficult to generalize across studies of NexoBrid® because the wound care and timing of the debridement and subsequent autografting varies across different burn centers and studies. We note that we are unable to verify the results of the DETECT study as it does not appear that this data has been published or provided by the applicant.

Finally, we note that a review of seven studies of NexoBrid® observed that when compared to the standard of care, there were variable reports of the cosmetic outcome of NexoBrid®. Loo observed that NexoBrid® prolonged wound closure, longer lengths of stay, and significant pain associated with NexoBrid® eschar debridement.

We invite public comment on whether NexoBrid® meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall notice published in the Federal Register regarding the substantial clinical improvement criterion for the NexoBrid®.

m. Olumiant® (baricitinib)

Eli Lilly and Company submitted an application for a new technology add-on payments for Olumiant® (baricitinib) for FY 2022. Olumiant® is a Janus kinase (JAK) 1 and 2 inhibitor used in combination with remdesivir as a treatment option for coronavirus disease 2019 (COVID–19), a respiratory disease caused by severe acute respiratory syndrome coronavirus 2 (SARS–CoV–2). Olumiant® has not yet received marketing approval from FDA to treat COVID–19, but has received an emergency use authorization (EUA) by the FDA. Olumiant® has been previously approved by FDA for the treatment of adult patients with moderately to severely active rheumatoid arthritis, who have had inadequate response to one or more tumor necrosis factor (TNF) antagonist therapies.

The applicant stated that patients diagnosed with COVID–19 are at an elevated risk for excess morbidity and mortality due to the underlying SARS-CoV–2 infection and subsequent cytokine activation. The applicant stated that the cause of respiratory failure in COVID–19 is a hyperinflammatory state characterized by upregulation of multiple cytokines and that Olumiant® may be a viable treatment in patients with COVID–19 requiring supplemental oxygen, invasive mechanical ventilation, or extracorporeal membrane oxygenation (ECMO) because of its anti-inflammatory activity and ability to reverse dysregulated inflammatory markers in patients with COVID–19.

The applicant noted that treatment with baricitinib 4 mg resulted in reduced plasma levels of the cytokine IL–6 in hospitalized patients with COVID–19, a finding that was replicated after being observed in patients with rheumatoid arthritis.

The applicant also claimed that Olumiant® potentially has anti-viral activity in inhibiting SARS-CoV–2 from entering and infecting lung cells due to its affinity for adaptor-associated kinase-1 (AAK1). The applicant noted that there are ongoing


studies to evaluate the impact of the antiviral host activity of Olumiant®.

With respect to the newness criterion, Olumiant® received Emergency Use Authorization (EUA) from FDA on November 19, 2020 for the emergency use of Olumiant®, indicated for use in combination with remdesivir for the treatment of suspected or laboratory confirmed COVID–19 in certain hospitalized patients requiring supplemental oxygen, invasive mechanical ventilation, or extracorporeal membrane oxygenation (ECMO). The applicant stated that it intends to submit a supplemental new drug application (sNDA) for Olumiant®.

In the FY 2021 IPPS final rule (73 FR 48561 through 48563), we revised our regulations at § 412.87 to codify our longstanding practice of how CMS evaluates the eligibility criteria for new medical service or technology add-on payment applications. We stated that new technologies that have not received FDA approval do not meet the newness criterion, we stated we do not believe it is appropriate for CMS to determine whether a medical service or technology represents a substantial clinical improvement over existing technologies before the FDA makes a determination as to whether the medical service or technology is safe and effective. For these reasons, we first determine whether a new technology meets the newness criterion, and only if so, do we make a determination as to whether the technology meets the cost threshold and represents a substantial clinical improvement over existing medical services or technologies. We also finalized at 42 CFR 412.87(c) (subsequently redesignated as 412.87(e)) that all applicants for new technology add-on payments must have FDA approval or clearance by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered.

In the FY 2021 IPPS/LTCH PPS final rule, to more precisely describe the various types of FDA approvals, clearances, licenses, and classifications that we consider under our new technology add-on payment policy, we finalized a technical clarification to § 412.87(e)(2) to indicate that new technologies must receive FDA marketing authorization (for example, pre-market approval (PMA); 510(k) clearance; the granting of a De Novo classification request; approval of a New Drug Application (NDA); or Biologics License Application (BLA) licensure) by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. As noted in the FY 2021 IPPS/LTCH PPS final rule, this technical clarification did not change our longstanding policy for evaluating whether a technology is eligible for new technology add-on payment for a given fiscal year, and we continue to consider FDA marketing authorization as representing that a product has received FDA approval or clearance for purposes of eligibility for the new technology add-on payment under § 412.87(e)(2) (85 FR 58742).

An EUA by the FDA allows a product to be used for emergency use, but under our longstanding policy, we believe it would not be considered an FDA marketing authorization for the purpose of new technology add-on payments, as a product that is available only through an EUA is not considered to have FDA approval or clearance. Therefore, under the current regulations at 42 CFR 412.87(e)(2) and consistent with our longstanding policy of not considering eligibility for new technology add-on payments prior to a product receiving FDA approval or clearance, we believe a product available only through an EUA would not be eligible for new technology add-on payments.

We also refer the reader to our comment solicitation in section II.F.7 of the preamble of this proposed rule regarding how data reflecting the costs of a product with an EUA, which may become available upon authorization of the product for emergency use (but prior to FDA approval or clearance), should be considered for purposes of the 2-year to 3-year period of newness for new technology add-on payments for a product with or expected to receive an EUA, including whether the newness period should begin with the date of the EUA. With respect to Olumiant®, we are specifically requesting comment on whether the newness period for this technology would begin on November 19, 2020, the date of its EUA, when the product became available on the market.

In response to the COVID–19 public health emergency (PHE), we established the New COVID–19 Treatments Add-on Payment (NCTAP) under the IPPS for COVID–19 cases that meet certain criteria (85 FR 71155). We believe that as drugs and biological products become available and are authorized for emergency use or approved by FDA for the treatment of COVID–19 in the inpatient setting, it is appropriate to increase the current IPPS payment amounts to mitigate any potential financial disincentives for hospitals to provide new COVID–19 treatments during the PHE. Therefore, effective for discharges occurring on or after November 19, 2020 and although the end of the PHE for COVID–19, we established the NCTAP to pay hospitals the lesser of (1) 65 percent of the operating outlier threshold for the claim or (2) 65 percent of the amount by which the costs of the case exceed the standard DRG payment, including the adjustment to the relative weight under section 3710 of the Coronavirus Aid, Relief, and Economic Security (CARES) Act, for certain cases that include the use of a drug or biological product currently authorized for emergency use or approved for treating COVID–19.476 Qualifying inpatient cases involving the use of Olumiant®, in combination with VEKLURY®, are currently eligible for NCTAP beginning November 19, 2020, the date Olumiant® received EUA, through the end of the PHE.

We anticipate that there might be inpatient cases of COVID–19, beyond the end of the PHE, for which payment based on the assigned MS–DRG may not adequately reflect the additional cost of new COVID–19 treatments. In order to continue to mitigate potential financial disincentives for hospitals to provide new treatments, and to minimize any potential payment disruption immediately following the end of the PHE, we believe that the NCTAP should remain available for cases involving eligible treatments, including Olumiant®, in combination with VEKLURY®, for the remainder of the fiscal year in which the PHE ends (for example, until September 30, 2022). We refer the reader to our proposal in section II.F.8. of the preamble of this proposed rule to extend the NCTAP through the end of the fiscal year in which the PHE ends for certain products and discontinue the NCTAP for products approved for new technology add-on payments in FY 2022.

The applicant indicated that Olumiant® could be reported using the ICD–10–PCS codes E06DXGC (Introduction of other therapeutic substance into mouth and pharynx, external approach) or E06G7GC (Introduction of other therapeutic substance into upper GI, via natural or artificial opening) but stated that these codes do not uniquely identify the administration of Olumiant®. We note that ICD–10–PCS codes WXO0DXF5 (Introduction of other new technology therapeutic substance into mouth and pharynx, external approach, new technology group 5) and 3E0H7GC (Introduction of other therapeutic...

---

As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With respect to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, according to the applicant, Olumiant® does not use the same or a similar mechanism of action when compared to an existing technology to achieve a therapeutic outcome, as there are no JAK inhibitor therapies that have received an EUA or an approval from FDA to treat COVID–19.

The applicant notes that currently there is one therapy approved by FDA to treat COVID–19 in hospital inpatients, remdesivir, and one therapy, besides Olumiant®, that has received EUA for the treatment of COVID–19, convalescent plasma. The applicant claims that the mechanism of action for both of these treatments differs from Olumiant®, which works as a JAK inhibitor.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that there are no JAK inhibitor therapies that have received an EUA or an approval from FDA for the treatment of patients with COVID–19 and that Olumiant® could therefore not be assigned to the same MS–DRG as existing therapies.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, according to the applicant, Olumiant® represents a potential new treatment option for adult and pediatric patients 2 years or older with suspected or laboratory-confirmed COVID–19 requiring supplemental oxygen, invasive mechanical ventilation, or extracorporeal membrane oxygenation (ECMO). The applicant also stated that COVID–19 is an entirely distinct disease from those caused by other coronaviruses including severe acute respiratory syndrome (SARS) and the Middle East respiratory syndrome coronavirus (MERS–CoV).

In summary, the applicant asserted that Olumiant® is not substantially similar to other available therapies because, as a JAK inhibitor, it has a unique mechanism of action; there are no other products assigned to the same MS–DRG; and it treats a different patient population and disease—COVID–19. However, although there may not be any other JAK inhibitors for the treatment of COVID–19 assigned to the same MS–DRG as Olumiant®, we note that Olumiant® may map to the same MS–DRG as other existing COVID–19 treatments. We also note that Olumiant® involves the treatment of the same patient population and disease as other treatments for COVID–19, as Olumiant® is given to the same patients as remdesivir due to the EUA indication.

As discussed in section II.F.7 of the preamble, we are requesting comment regarding how data reflecting the costs of a product with an EUA, which may become available upon authorization of the product for emergency use (but prior to FDA approval or clearance), should be considered for purposes of the 2-year to 3-year period of newness for new technology add-on payments for a product with or expected to receive an EUA, including whether the newness period should begin with the date of the EUA. We are also specifically requesting comment on whether the newness period for Olumiant® would begin on November 19, 2020, the date of its EUA, when the product became available on the market.

As previously discussed, under the regulations at 42 CFR 412.87(e)(2) and consistent with our longstanding policy of not considering eligibility for new technology add-on payments prior to a product receiving FDA approval or clearance, we believe a product available only through an EUA would not be eligible for new technology add-on payments.

We are inviting public comment on whether Olumiant® meets the newness criterion.

With respect to the cost criterion, the applicant performed four analyses. Two of these analyses were based on proxy COVID–19 cases using ICD–10–CM codes B97.29 with additional coding to identify manifestation. The applicant stated that these cases were then differentiated into proxy COVID–19 cases with supplemental oxygen and all proxy COVID–19 cases. The applicant stated that they also conducted two supplementary analyses to confirm that actual COVID–19 cases using Olumiant® would meet the cost threshold using linked 837 and 835 inpatient Electronic Data Interchange (EDI) transaction sets— that were processed during February through June of 2020. The applicant then identified COVID–19 cases with supplemental oxygen and all COVID–19 cases.

For the first analysis, the applicant searched the FY 2019 MedPAR LDS claims data file for potential cases representing patients who may be eligible for treatment using Olumiant®. The applicant identified proxy COVID–19 cases with supplemental oxygen by using ICD–10–CM diagnosis codes B97.29 with one of the following ICD–10–CM codes: J12.89, J20.8, J40, J42, J98.8, and J80. The applicant excluded ICD–10–CM codes B34.2 and Z03.818. The applicant stated that this coding methodology was based on CDC guidance for coding COVID–19 cases prior to April 1, 2020. The applicant then limited the group to those cases that had ICD–10–PCS codes for supplemental oxygen. The ICD–10–PCS codes included ventilation (5A1935Z, 5A1945Z, 5A1955Z, 5A09358, 5A09359, 5A0935B, 5A0935Z, 5A09457, 5A09458, 5A09459, 5A0945B, 5A0945Z, 5A09557, 5A09558, 5A09559, 5A0955B, and 5A0955Z), extracorporeal membrane oxygenation (5A15223, 5A1522F, 5A1522G, 5A1522H, 5A1524F, 5A15A2G, and 5A15A2H), and ICD–10–CM code Z99.81. This resulted in 473 cases mapping to the 11 MS–DRGs listed below.

---

For the second analysis, the applicant identified all proxy COVID–19 cases using the same ICD–10–CM codes that were previously described; however, the applicant did not include or exclude any cases based on the ICD–10–PCS codes listed in claims. This resulted in 1,726 cases mapping to the following 25 MS–DRGs.

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis w/o MV &gt;96 Hours w MCC</td>
</tr>
<tr>
<td>189</td>
<td>Pulmonary Edema &amp; Respiratory Failure</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCC</td>
</tr>
<tr>
<td>190</td>
<td>Chronic Obstructive Pulmonary Disease w MCC</td>
</tr>
<tr>
<td>208</td>
<td>Respiratory System Diagnosis w Ventilator Support &lt;=96 Hours</td>
</tr>
<tr>
<td>780</td>
<td>Septicemia or Severe Sepsis w MV &gt;96 Hours or Peripheral Extracorporeal</td>
</tr>
<tr>
<td>177</td>
<td>Respiratory Infections &amp; Inflammations w MCC</td>
</tr>
<tr>
<td>872</td>
<td>Septicemia or Severe Sepsis w/o MV &gt;96 Hours w/o MCC</td>
</tr>
<tr>
<td>853</td>
<td>Infectious &amp; Parasitic Diseases w O.R. Procedure w MCC</td>
</tr>
<tr>
<td>195</td>
<td>Simple Pneumonia &amp; Pleurisy w/o CC/MCC</td>
</tr>
<tr>
<td>207</td>
<td>Respiratory System Diagnosis w Ventilator Support &gt;96 Hours or Periphe</td>
</tr>
<tr>
<td>166</td>
<td>Other Resp System O.R. Procedures w MCC</td>
</tr>
<tr>
<td>203</td>
<td>Bronchitis &amp; Asthma w CC/MCC</td>
</tr>
<tr>
<td>205</td>
<td>Other Respiratory System Diagnoses w MCC</td>
</tr>
<tr>
<td>682</td>
<td>Renal Failure w MCC</td>
</tr>
<tr>
<td>308</td>
<td>Cardiac Arrhythmia &amp; Conduction Disorders w MCC</td>
</tr>
<tr>
<td>192</td>
<td>Chronic Obstructive Pulmonary Disease w/o CC/MCC</td>
</tr>
<tr>
<td>292</td>
<td>Heart Failure &amp; Shock w CC</td>
</tr>
<tr>
<td>178</td>
<td>Respiratory Infections &amp; Inflammations w CC</td>
</tr>
<tr>
<td>698</td>
<td>Other Kidney &amp; Urinary Tract Diagnoses w MCC</td>
</tr>
<tr>
<td>280</td>
<td>Acute Myocardial Infarction, Discharged Alive w MCC</td>
</tr>
</tbody>
</table>

For the third analysis, the applicant used Inovalon provider-sourced pre-and post-adjudicated claims data to identify CY 2020 claims for COVID–19 cases that may be eligible for treatment involving Olumiant®. Specifically, the applicant used linked 837 and 835 inpatient Electronic Data Interchange (EDI) transaction sets that were processed between February and June of 2020. For discharges prior to April 1, 2020, the applicant identified cases using ICD–10–CM diagnosis code B97.29 with one of the following ICD–10–CM codes: J12.89, J20.8, J40, J22, J98.8, and J80. The applicant excluded ICD–10–CM codes B34.2 and Z03.818. For cases discharged on or after April 1, 2020, the applicant identified cases using ICD–10–CM code U07.1 and included codes B34.2 and Z03.818. The applicant then limited the group to those cases that had ICD–10–PCS codes for supplemental oxygen. The ICD–10–PCS codes included ventilation (5A1935Z, 5A1945Z, 5A1955Z, 5A0935Z, 5A09358, 5A09359, 5A0935B, 5A09457, 5A09458, 5A09459, 5A0945B, 5A0945Z, 5A09557, 5A09558, 5A09559, 5A0955B, and 5A0955Z) and extracorporeal membrane oxygenation (5A15223, 5A1522F, 5A1522G, 5A1522H, 5A15A2F, 5A15A2G, and 5A15A2H), and ICD–10–CM code Z99.81 Dependence on supplemental oxygen. This resulted in 966 cases, which were mapped to the following 7 MS–DRGs:
For the fourth analysis, the applicant identified all COVID–19 cases using the same ICD–10–CM diagnosis codes as previously described. For discharges prior to April 1, 2020, the applicant identified cases using ICD–10–CM diagnosis code B97.29 with one of the following ICD–10–CM codes: J12.89, J20.8, J40, J22, J98.8, and J80. The applicant excluded ICD–10–CM codes B34.2 and Z03.818. For cases discharged on or after April 1, 2020, the applicant identified cases using ICD–10–CM code U07.1 and excluded codes B34.2 and Z03.818. The applicant did not include or exclude any cases based on the ICD–10–PCS codes listed in claims. Based on this analysis, the applicant found 3,826 cases, which map to 21 MS–DRGs listed below.

### MSDRGs - COVID-19 with Supplemental Oxygen

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>870</td>
<td>Septicemia or Severe Sepsis w MV &gt;96 Hours or Peripheral Extracorpora</td>
</tr>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis w/o MV &gt;96 Hours w MCC</td>
</tr>
<tr>
<td>207</td>
<td>Respiratory System Diagnosis w/o Ventilator Support &gt;96 Hours or Peripe</td>
</tr>
<tr>
<td>177</td>
<td>Respiratory Infections &amp; Inflammations w MCC</td>
</tr>
<tr>
<td>208</td>
<td>Respiratory System Diagnosis w/o Ventilator Support &lt;=96 Hours</td>
</tr>
<tr>
<td>604</td>
<td>Tracheostomy w MV &gt;96 Hours or Principal Diagnosis Except Face, Mouth and Neck w/o Major O.R</td>
</tr>
<tr>
<td>853</td>
<td>Infectious &amp; Parasitic Diseases w O.R. Procedure w MCC</td>
</tr>
</tbody>
</table>

For each analysis, the applicant then removed 12.5 percent of the length of stay charges from the relevant cases to estimate the reduction in charges due to decrease in number of hospitalization days that may be avoided through use of baricitinib. The applicant determined this percentage based on findings from the ACTT–2 trial,478 sponsored by the National Institute of Allergy and Infection Diseases (NIAID), which found an improved median time to recovery from 8 to 7 days (that is, a 12.5 percent improvement).

For the first two analyses, the applicant then standardized the charges and applied a 2-year inflation factor of 1.131096 that the applicant stated was used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges. We note that the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges is 1.13218, which would have increased the inflated charges figure. For analysis three and four, the applicant standardized the charges and applied a one-year inflation factor of 6.4 percent, the one-year inflation factor published in the FY 2021 IPPS/LTCH PPS final rule.

For each analysis, the applicant then calculated and added the charges for Olumiant® by taking the estimated per patient cost of the drug, and converting it to a charge by dividing the costs by the national average CCR (cost-to-charge ratio) of 0.187 for drugs from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601).

In the first analysis, which included proxy COVID–19 with supplemental oxygen cases, the applicant computed a final inflated average case-weighted standardized charge per case of $88,728, which exceeded the average case-weighted threshold amount of $69,276.

In the second analysis, which included all proxy COVID–19 cases, the applicant computed a final inflated average case-weighted standardized charge per case of $68,562, which exceeded the average case-weighted threshold amount of $56,643.

In the third analysis, which included COVID–19 with supplemental oxygen cases, the applicant computed a final inflated average case-weighted...
standardized charge per case of $198,114, which exceeded the average case-weighted threshold amount of $123,238.

In the fourth analysis, which included all COVID–19 cases, the applicant computed a final inflated average case-weighted standardized charge per case of $99,870, which exceeded the average case-weighted threshold amount of $75,891.

Because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount under both analyses described previously, the applicant asserted that the technology meets the cost criterion.

We invite public comments on whether Olumiant® meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that Olumiant® in combination with remdesivir represents a substantial clinical improvement over existing technologies because it improves time to recovery, improves odds of improvement in clinical status at Day 15 after enrollment, and reduces mortality in the treatment of COVID–19 compared to remdesivir alone.479 The applicant also stated that the combination of Olumiant® and remdesivir has a favorable risk/benefit profile in comparison to remdesivir alone. The applicant also claimed that Olumiant® improves respiratory function in patients treated with corticosteroids for SARS-CoV–2 pneumonia when compared with corticosteroids alone.

In support of these claims, the applicant submitted the results of the ACTT–2 study, which showed that Olumiant® plus remdesivir was superior to remdesivir plus placebo. There were 515 patients randomized to the treatment group and 518 to the control group. Of those in the treatment group, 507 (98.4 percent) received treatment as assigned. Of those in the control group, 509 (98.3 percent) received treatment as assigned. A total of 498 patients in the treatment group and 495 in the control group completed the trial through day 29, recovered, or died. The mean age of the patients was 55.4 years, and 63.1 percent were male. An ordinal scale was used in the study that identified the patient’s baseline disease severity at enrollment and ranged from 1 (not hospitalized, no limitations on activities) to 8 (death). This scale is displayed in the table below. The intention-to-treat population included 706 patients with moderate disease (ordinal score of 4 [hospitalized, not requiring supplemental oxygen—requiring ongoing medical care] or 5 [hospitalized, requiring supplemental oxygen]) and 327 with severe disease (ordinal score of 6 [hospitalized, on non-invasive ventilation or high flow oxygen devices] or 7 [hospitalized, on mechanical ventilation or ECMO]). Patients received remdesivir intravenously as a 200-mg loading dose on day 1, followed by a 100-mg maintenance dose administered daily on days 2 through 10 or until hospital discharge or death. Baricitinib was administered as a 4-mg daily dose (either orally [two 2-mg tablets] or through a nasogastric tube) for 14 days or until hospital discharge.

### Baseline Disease Severity Ordinal Scale

| 1 | Not hospitalized, no limitations on activities |
| 2 | Not hospitalized, limitation on activities and/or requiring home oxygen |
| 3 | Hospitalized, not requiring supplemental oxygen – no longer requires ongoing medical care |
| 4 | Hospitalized, not requiring supplemental oxygen – requiring ongoing medical care |
| 5 | Hospitalized, requiring supplemental oxygen |
| 6 | Hospitalized, on non-invasive ventilation or high flow oxygen devices |
| 7 | Hospitalized, on mechanical ventilation or ECMO |
| 8 | Death |

In support of its claim that Olumiant® in combination with remdesivir improves time to recovery from COVID–19 compared to remdesivir alone, the applicant cited the primary outcome of the ACTT–2 study, which showed that the median time to recovery for the Olumiant® plus remdesivir (treatment) group was 7 days and the median time to recovery for remdesivir plus placebo (control) group was 8 days (rate ratio for recovery, 1.16 [1.01–1.32]; p=0.03). Recovery was defined as the participant being well enough for hospital discharge, meaning the participant either no longer required supplemental oxygen or ongoing medical care in the hospital, or was no longer hospitalized at Day 29.

The applicant also stated that the median time to recovery among patients receiving noninvasive ventilation or high-flow oxygen (baseline ordinal score of 6) was 10 days for the treatment group and 18 days in the control group (rate ratio for recovery, 1.51; 95 percent CI, 1.10–2.08). The applicant stated that the median time to recovery was one day shorter among patients receiving supplemental oxygen (baseline ordinal score of 5) in the Olumiant® and remdesivir group (5 days vs. 6 days) rate ratio 1.17; CI, 0.98–1.39). The applicant noted that for those receiving mechanical ventilation or ECMO at enrollment (baseline ordinal score of 7), the rate ratio for recovery was 1.08 (95 percent CI, 0.59 to 1.97).

The applicant asserted that the secondary outcome of the ACTT–2 study supports its claim of improved odds of improvement in clinical status at Day 15 based on the eight-category ordinal scale. The applicant summarized the results of the study which showed that the odds of improvement in clinical status at Day 15 were greater in the Olumiant® group compared to the placebo group (odds ratio 1.3; 95 percent CI, 1.0–1.6). The applicant also stated that the odds of

---

479 Kalil, A.C., Patterson, T.F., Mehta, A.K., et al. Baricitinib plus remdesivir for adults with Covid–19 compared to remdesivir alone.480 Ibid.

improvement in clinical status at Day 15 was greater for patients receiving noninvasive ventilation or high-flow oxygen (baseline ordinal score of 6) in the Olumiant® group versus the control group (odds ratio 2.2; 95 percent CI, 1.4–3.6).

The applicant asserted that the study conducted by Kalil et al. (2020) supports its claim of reduced mortality in the Olumiant® and remdesivir group compared to the control group because the Kaplan-Meier estimates of mortality at day 28 after randomization were 5.1 percent (95 percent CI, 3.5–7.6) in the combination (Olumiant® and remdesivir) group and 7.8 percent (95 percent CI, 5.7 to 10.6) in the control group (hazard ratio for death, 0.65; 95 percent CI, 0.39 to 1.09). The applicant also stated that the greatest numerical differences in mortality between patients in the combination group and those in the control group were observed among those with a baseline ordinal score of 5 (1.9 percent vs. 4.7 percent; hazard ratio, 0.40; 95 percent CI, 0.14 to 1.14) or 6 (7.5 percent vs. 12.9 percent; hazard ratio, 0.55; 95 percent CI, 0.22 to 1.38). The applicant also cited the Kaplan–Meier estimates of mortality at 14 days after randomization, which were 1.6 percent in the combination group and 3.0 percent in the control group (hazard ratio, 0.54; 95 percent CI, 0.23 to 1.28).

The applicant also asserted that the incidence of new use of oxygen was lower in patients treated with Olumiant® in combination with remdesivir alone (22.9 percent vs. 40.3 percent respectively; difference, –17.4 percentage points; 95 percent CI, –31.6 to –2.1) and that the incidence of new use of mechanical ventilation or ECMO was lower in the combination group (10.0 percent vs. 15.2 percent; difference, –5.2 percentage points; 95 percent CI, –9.5 to –0.9) based on Kalil et al. (2020). The applicant also stated that there were fewer median days of receipt of mechanical ventilation or ECMO among the 128 patients for which these interventions were started after enrollment or who died with no observed new use in the Olumiant® in combination with remdesivir group compared to the remdesivir group (16 median days in the combination group and 27 median days in the control group (difference, –11.0; 95 percent CI, –18.3 to –3.7)). The applicant also stated that the incidence of progression to death or invasive ventilation was lower in the combination group than in the control group (15 percent vs. 28.4 percent; rate ratio, 0.77; 95 percent CI, 0.60 to 0.98) and that the incidence of progression to death or invasive ventilation was also lower (12.2 percent vs. 17.2 percent; rate ratio, 0.69; 95 percent CI, 0.50 to 0.95).

The applicant asserted that the study conducted by Kalil et al. (2020) supports its claim that the combination of Olumiant® in combination with remdesivir has a favorable benefit/risk profile compared to remdesivir alone. The applicant states that serious adverse events occurred in 81 patients (16.0 percent) in the combination group (six of these were thought to be related to the trial product) and in 107 patients (21.0 percent) in the control group (five of these were thought to be related to the trial product) and the between-group difference was –5.0 percentage points (95 percent CI, –9.8 to –0.3; P = 0.03). The applicant also states that Grade 3 or 4 adverse events occurred in 207 patients (40.7 percent) in the combination group and 238 (46.8 percent) in the control group. The applicant also cited an observational study to support the claim that there was greater improvement in pulmonary function in patients receiving lopinavir/ritonavir and hydroxychloroquine with Olumiant® and corticosteroids when compared to patients receiving lopinavir/ritonavir and hydroxychloroquine with corticosteroids alone. In this study, the primary end point was the change in oxygen saturation as measured by pulse oximetry (SpO2/FiO2 from hospitalization to discharge. The applicant states that there was a greater improvement in SpO2/FiO2 from hospitalization to discharge observed in the Olumiant® in combination with corticosteroids or the corticosteroids alone group (mean differences adjusted for IPSW, 49; 95 percent CI: 22, 77; P<0.001).

In our assessment of the applicant’s claims in support of substantial clinical improvement, we have the following concerns. With regard to the ACTT–2 trial, we note that there were no statistically significant differences in time to recovery or odds of improvement in clinical status at Day 15 between the Olumiant®+remdesivir group compared to the remdesivir+placebo group for patients with a baseline ordinal score of 4, 5, or 7. We further note that although the applicant asserted that Olumiant®+remdesivir reduces mortality compared to remdesivir alone, the difference between the treatment and control groups was not statistically significant. We also note that the ACTT–2 study protocol prohibited the use of systemic corticosteroids for the treatment of COVID–19 but allowed systemic steroids for standard indications such as asthma exacerbation, acute respiratory distress syndrome (ARDS), chronic obstructive pulmonary disease (COPD), laryngeal edema, adrenal insufficiency and shock and we are therefore unsure if the use of corticosteroids among the patient population may be a confounding factor. With regard to the Rodriguez-Garcia (2020) study, we note that this study did not involve the treatment of patients with Olumiant® in combination with remdesivir, which is the authorized use per its EUA, and the use of multiple treatments in this trial may make the effect of Olumiant® on greater improvement in pulmonary function unclear. Finally, we note that the current clinical guidelines from the Infectious Diseases Society of America (IDSA) recommend the use of Olumiant® with remdesivir rather than remdesivir alone among hospitalized patients with severe COVID–19 who cannot receive corticosteroids because of a contraindication. In addition, guidelines from the National Institutes of Health (NIH) state that there are insufficient data to recommend for or against the use of Olumiant® in combination with remdesivir, where corticosteroids can be used instead, and there is insufficient data to recommend for or against the use of Olumiant®, in combination with corticosteroids. We are therefore interested in data regarding the use of Olumiant® in combination with remdesivir over corticosteroids.

We welcome public comment on whether Olumiant® meets the substantial clinical improvement criterion.

In this section, we summarize and respond to written public comments.

482 Ibid.
COVID–19 is a hyperinflammatory state characterized by upregulation of multiple cytokines. The applicant stated that in Wuhan, China, COVID–19-infected patients admitted to the ICU exhibited increased plasma concentrations of IL–2, IL–7, IL–10, GM–CSF, IP–10, MCP–1, MIP1-α, and TNF–α, compared with the non-ICU patients. Elevated IL–6 and hyperferritinemia were predictors of death in these patients with COVID–19.483 486 487

The applicant stated that Olumiant® may be a viable treatment in patients with COVID–19 requiring supplemental oxygen, noninvasive mechanical ventilation, or ECMO because of its anti-inflammatory activity and ability to reverse dysregulated inflammatory markers in patients with COVID–19.484 489 Relevant to COVID–19 and the potential role played by IL–6, the applicant stated that it is notable that treatment with Olumiant® 4 mg resulted in reduced plasma levels of IL–6 in hospitalized patients with COVID–19, a finding that was replicated after being observed in patients with RA.490–491 492

The applicant stated that the biochemical inhibitory effects of Olumiant® on human numb-associated kinase (NAK) members, responsible for SARS–CoV–2 viral propagation, measuring nanomolar affinities for AAK1, BIKε, and GAK were recently confirmed.493 In addition, the applicant noted that some plasma markers that were dysregulated in moderate to severe hospitalized patients with COVID–19, that represent myeloid dysregulation, endothelial and cardiovascular inflammation, along with reduced antigen presenting plasmacytoid dendritic cells, were normalized over time with Olumiant® treatment.494 The applicant stated that the impact of this antiviral host activity in patients with COVID–19 is being evaluated through collection of nasopharyngeal swabs, serum and whole blood for RNA, epigenetic analysis, and cellular phenotyping in the ongoing randomized Study KHA.

The applicant stated that previous studies of corticosteroids in other viral pneumonias, especially SARS and Middle East respiratory syndrome (MERS), found an association with delayed viral clearance, and reinforced concerns that corticosteroids may impair host response to SARS–CoV–2.495 496 In contrast, treatment with Olumiant® from 2 distinct clinical case series indicate that the adaptive immune response responsible to generate IgG antibodies against SARS–CoV–2-specific spike proteins remains intact after treatment with Olumiant®,497 498 the applicant stated that the effects of corticosteroid treatment on adaptive immunity are

### References

believed to occur through the non-canonical signaling pathways. The applicant asserted that the immunomodulatory pathway targeted by Olumiant®, JAK1/JAK2 signaling, opposed to NFKB (nuclear factor kappa-B cells) signaling targeted by corticosteroids, may offer an explanation to these effects.

The applicant also noted differences between Olumiant® and dexamethasone. The applicant stated that drugs acting on glucocorticoid receptors, such as dexamethasone, have a broad pathway approach to reduce inflammation that is known to be associated with profound immunosuppression, secondary hospital-acquired infections, gastrointestinal bleeding, hyperglycemia, and post-hospital neuromuscular weakness. JAK inhibitors, such as Olumiant®, act on several critical pathways to reduce inflammation while minimizing biological redundancy and have favorable PK properties and less immunosuppression.499

The applicant stated that the anti-inflammatory effects of Olumiant® have also been demonstrated by the reduction of serum levels of IFN-γ, IP–10, GM-CSF, and MCP–1 in pediatric patients with steroid-dependent chronic inflammation, resulting in control of disease activity and the ability to wean or taper steroids.500 The applicant went on to state that, furthermore, dose-dependent decreases in IFN biomarkers confirmed an in vivo effect of Olumiant® on type-1 IFN signaling in pediatric patients suffering from CANDLE and SAVI.501

The applicant was asked if the adverse events were higher or unchanged among at risk subgroup populations over 65 years with comorbidities such as diabetes or chronic lung or renal disease in patients with COVID–19 and treated with Olumiant®. The applicant responded that there were 71 and 78 patients in the remdesivir+placebo groups and Olumiant®+remdesivir groups, respectively, who were over 65 years of age and had diabetes, chronic lung disease or renal disease in ACTT–2. The applicant stated that treatment emergent adverse events were reported in 62.0 percent of remdesivir+placebo and 57.7 percent of Olumiant®+remdesivir patients. Serious adverse events were reported in 33.8 percent of remdesivir+placebo and 28.2 percent of Olumiant®+remdesivir patients. The applicant stated that these findings are consistent with that in the overall population; fewer events in the Olumiant®+remdesivir group compared to remdesivir and placebo group.

Lastly, the applicant was asked to explain the difference in median time to recovery between patients who did not receive oxygen, which was 5 days in the Olumiant® and remdesivir group, and 4 days in the remdesivir and placebo group. For patients that did receive supplemental O2 and other respiratory interventions, the median time to recovery was shorter in those patients who received Olumiant® and remdesivir compared to the remdesivir and placebo group. The applicant replied that across all outcome measures, a more pronounced treatment effect was observed in patients with more severe disease at baseline. These data did not show additional benefit of adding Olumiant® to remdesivir for patients in the milder disease status. The applicant also stated that the ACTT–2 trial was not designed or powered to evaluate efficacy in each subgroup of patients per baseline ordinal scale. The applicant stated that these data led the applicant to request Emergency Use Authorization for Olumiant® and FDA authorized the use of Olumiant® in combination with remdesivir, for treatment of suspected or laboratory confirmed COVID–19 in hospitalized adults and pediatric patients 2 years of age or older, requiring supplemental oxygen, invasive mechanical ventilation, or extracorporeal membrane oxygenation (ECMO).

Response: We appreciate the applicant’s comment. We will take the responses into consideration when deciding whether to approve new technology add-on payments for Olumiant®.

n. Pure-Vu® System

Motus GI holdings, Inc. submitted an application for new technology add-on payments for the Pure-Vu® System for FY 2022. The Pure-Vu® System is an FDA cleared system designed to connect to currently marketed colonoscopes to provide high intensity, intra-procedural cleansing of the colon during a colonoscopy. According to the applicant, the Pure-Vu® System is indicated for use in patients requiring therapeutic or diagnostic colonoscopies where the bowel has not been adequately prepared. The applicant asserted that the Pure-Vu® System would be used in situations such as a lower gastrointestinal bleed (LGIB), as LGIB does not allow for adequate bowel preparation.

The applicant asserted that the Pure-Vu® System device helps to avoid aborted and delayed colonoscopy procedures due to poor visualization of the colon mucosa by creating a unique High Intensity. Pulsed Vortex Irrigation Jet that consists of a mixture of air and water to break up fecal matter, blood clots, and other debris, and scrub the walls of the colon while simultaneously removing the debris through two suction channels. The applicant stated that the suction channels have a sensor to detect the formation of a clog in the channels, triggering the system to automatically purge and then revert to suction mode once the debris is clear. According to the applicant, this combination of the agitation of the fluid in the colon via the pulsed vortex irrigation and simultaneous removal of the debris allows the physician to visualize the colon and achieve a successful colonoscopy or other advanced procedure through the colonoscope even if the patient is not properly prepped and has debris either blocking the ability to navigate the colon or covering the colon wall obscuring the mucosa and any pathology that may be present. The applicant asserted that the constant volume suction pumps do not cause the colon to collapse, which allows the physician to continue to navigate the colon while cleansing and avoids the need to constantly insufflate the colon, which may be required with other colonoscopy irrigation systems.

The applicant stated that the Pure-Vu® System is comprised of a workstation that controls the function of the system, a disposable oversleeve that is mounted on a colonoscope and inserted into the patient, and a disposable connector with tubing (umbilical tubing with main connector) that provides the interface between the workstation, the oversleeve, and off the shelf waste containers.

The applicant explained that the workstation has two main functions: Cleansing via irrigation and evacuation, and acting as the user interface of the system. The applicant explained that the irrigation into the colon is achieved by an electrical pump that supplies pressurized gas (air) and a peristaltic
pump that supplies the liquid (water or saline). According to the applicant, the pressurized gas and liquid flow through the “main connector” and are mixed upon entry into the umbilical tubing that connects to the oversleeve. The applicant explained that the gas pressure and flow are controlled via regulators and the flow is adjusted up or down depending on the cleansing mode selected. The applicant stated that a foot pedal connected to the user interface activates the main functions of the system so that the user’s hands are free to perform the colonoscopy procedure in a standard fashion.

The applicant stated that the evacuation mode (also referred to as suction) removes fecal matter and fluids out of the colon. The applicant noted that the evacuation function is active during cleansing so that fluid is inserted and removed from the colon simultaneously. The applicant explained that the evacuation pumps are designed in a manner that prevents the colon from collapsing when suctioning, which facilitates the ability to simultaneously irrigate and evacuate the colon. According to the applicant, during evacuation, the system continuously monitors the pressure in the evacuation channels of the oversleeve and if the pressure drops below pre-set limits the pumps will automatically reverse the flow. The applicant explained that the clog sensor triggers the system to automatically purge the material out of the channel and back into the colon where it can be further emulsified by the Pulsed Vortex Irrigation Jet, and then automatically reverts back into evacuation mode once the channel is cleared. The applicant stated that the evacuation (suction) that drains fecal matter and fluids out of the colon is generated by peristaltic pumps that can rotate in both directions, either to evacuate fluids and fecal matter from the colon through the evacuation tubes and into a waste container, or while in the reverse direction, to purge the evacuation tubes. The applicant claimed the suction created by this type of pump creates a constant volume draw of material from the colon and therefore prevents the colon from collapsing rapidly. According to the applicant, purging of evacuation tubes may be activated in two ways: The purging cycle is automatically activated when low pressure is noted by the evacuation-line sensor (it is also activated for the first 0.5 seconds when evacuation is activated to make sure the line is clear from suction) or manual purge may be activated by the user by pushing the “manual purge” button on the foot pedal. The applicant claimed the pressure-sensing channel is kept patent by using an air perfusion mechanism where an electrical pump is used to perfuse air through the main connector and into the oversleeve, while the sensor located in the workstation calculates the pressure via sensing of the channel.

The applicant explained the Pure-Vu® System is loaded over a colonoscope and that the colonoscope with the Pure-Vu® Oversleeve is advanced through the colon in the same manner as a standard colonoscopy. The applicant stated that the body of the oversleeve consists of inner and outer sleeves with tubes intended for providing fluid path for the cleansing irrigation (2X), the evacuation of fluids (2X), the evacuation sensor (1X) and that the flexible head is at the distal end of the oversleeve and is designed to align with the colonoscope’s distal end in a consistent orientation. The applicant explained that the distal cleansing and evacuation head contains the irrigation ports, evacuation openings, and a sensing port. According to the applicant, the system gives the physician the control to cleanse the colon as needed based on visual feedback from the colonoscope to make sure they have an unobstructed view of the colon mucosa to detect and treat any pathology. The applicant noted that since the Pure-Vu® System does not interfere with the working channel of the colonoscope, the physician is able to perform all diagnostic or therapeutic interventions in a standard fashion with an unobstructed field of view.

According to the applicant, multiple studies have shown that inadequate bowel visualization leads to missed pathology, delayed diagnosis, extended hospital stay, and in some cases, additional therapy being administered, especially in the acute LGIB population, which is the most common indication for inpatients that require colonoscopy. 502 503 Unknown abdominal pain, infection, and foreign body removal were also cited by the applicant as being common indications for an inpatient colonoscopy.

The applicant explained that when a patient with LGIB is admitted to the hospital, they are stabilized and then started on bowel preparation for the colonoscopy procedure. The applicant claimed that the patient typically is placed on a liquid-only diet while consuming 4–6 liters of polyethylene glycol (PEG) based solution until the rectal effluent is clear. If the rectal effluent is not clear, additional bowel preparation is prescribed. The applicant stated that for severe LGIB cases, a patient is prescribed to consume a rapid purge of 1 liter every 30–45 minutes with a total volume of 4–14 liters, which could lead to purgative intolerance or vomiting. The applicant claimed that even in situations where bowel preparation has been completed, and clear rectal effluent while on a clear liquid diet has been confirmed, there are no guarantees that a patient’s bowel is clean for a successful colonoscopy. The applicant submitted data from a study by the Cleveland Clinic showing 51 percent of 8,819 patients observed over a 4-year period were inadequately prepared for colonoscopies, leading to one extra day in the hospital compared to patients that were adequately prepared. 504 The applicant cited another study by Northwestern University demonstrating an association between inadequate bowel preparation and increased length of stay (LOS) in hospitals, with inadequately prepared patients staying two more days than adequately prepared patients on average. 505 The applicant claimed additional time spent in hospitals increases the patient’s exposure to risks of hospital-acquired infections. The applicant claimed this risk is especially impactful to patients who are admitted for LGIB, which is so severe and at a higher prevalence in the elderly population. 506 507 The applicant stated in the elderly population, continuous bowel preparation also poses increased risk due to their higher comorbidities and potential for electrolyte imbalances such as hyperphosphatemia, hypocalcemia, and hypokalemia. 508

---

The applicant cited a practical guide authored by Kim B., et al., to assert that poor visualization of the colon mucosa has a direct effect on the ability to detect the presence of a GI bleed or the aftermath stigmata and administer treatment successfully.509 The applicant used the Boston Bowel Preparation Scale (BBPS), developed by Lai E. et al.,510 as a reliable method to measure bowel preparation. The applicant stated that the scale is a range (0–9) of dirtiest to cleanest for the whole colon and 0 to 3 for each of the 3 segments of the colon; the right colon (including the cecum and ascending colon), the transverse colon (including the hepatic and splenic flexures), and the left colon (including the descending colon, sigmoid colon, and rectum). Therefore, the maximum BBPS score for a perfectly clean colon without any residual liquid is nine and the minimum BBPS score for an unprepared colon is zero. The points are assigned as follows: Zero = Unprepared colon segment with mucosa not seen due to solid stool that cannot be cleared; one = Portion of mucosa of the colon segment seen, but other areas of the colon segment not well seen due to staining, residual stool and/or opaque liquid; two = Minor amount of residual staining, small fragments of stool and/or opaque liquid, but mucosa of colon segment seen well; three = Entire mucosa of colon segment seen well with no residual staining, small fragments of stool or opaque liquid.

The applicant stated that evidence-based guidelines and clinical reviews in high impact biomedical journals recommend colonoscopy as the preferred initial modality for the diagnosis and treatment of acute lower gastrointestinal bleeding.511,512 The applicant stated that colonoscopy has been less frequently utilized than might otherwise be indicated because it suffers otherwise because of a poorly prepared colon. Based on these assertions, the applicant inferred that colonoscopy for acute lower gastrointestinal bleeding would be much more utilized and lead to more diagnoses and interventions with intraprocedural bowel preparation, which puts the control of the visualization (cleanliness) of the colon mucosa in the hands of the endoscopist. The applicant further stated it is important to appreciate that alternatives to colonoscopy, including angiography and vascular embolization treatments to create hemostasis, have risks of ischemic vascular injury, retroperitoneal bleeding and acute renal injury.514 The applicant stated that aside from the colonoscopy, other modalities such as tagged red blood cell scans, computed tomography (CT) angiograms, and mesenteric angiographies all require an active source of bleed in order to achieve a successful diagnostic yield. The applicant claimed that even when diagnosis is achieved using these modalities, a colonoscopy may still be ordered to treat the source of the bleed via epinephrine injections and clipping and thermal therapies, to prove or prevent potential surgical interventions.

With respect to the newness criterion, the Pure-Vu® System first received FDA 510(k) clearance on September 22, 2016 under 510(k) number K60015. Per the applicant, this initial device was very cumbersome to set up and required direct support from the company and therefore was not viable for a small company with limited resources to market the device. The applicant noted that the initial device could have been sold starting on January 27, 2017 when the first device came off the manufacturing line. Per the applicant, the device was allocated for clinical evaluations but 10 institutions throughout the country purchased the device outside of a clinical study, primarily to allow physicians to try the product prior to committing to a clinical trial. The applicant further noted that minor modifications were made to the Pure-Vu System in additional 510(k) clearances dated December 12, 2017 and June 21, 2018. The current marketed Pure-Vu System was then granted 510(k) clearance on June 6, 2019 under 510(k) number K191220. Per the applicant, this clearance changed the entire set-up of the device, redesigned the user interface, and reduced the size, among other changes. According to the applicant, this updated version was commercially available as of September 19, 2019.

Currently, there are no ICD–10–PCS procedure codes to uniquely identify procedures involving the Pure-Vu® System. We note that the applicant has submitted a request for approval for a unique ICD–10–PCS code for the use of the Pure-Vu® System beginning FY 2022.

If a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and therefore would not be considered “new” for purposes of new technology add-on payments.

With respect to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant asserted that the Pure-Vu® System has a different mechanism of action than existing technologies due to its ability to break up and remove a high volume of debris from the colon and dislodge adherent films from the colon wall in a safer manner that cannot be achieved with irrigation done through the working channel of a colonoscope. The applicant also asserted that due to the controlled simultaneous removal of the debris and fluid by the evacuation pumps in the system, the Pure-Vu® System eliminates the likelihood of creating a fluid load in the colon, which cannot be achieved with any other device on the market. The applicant further asserted a differing mechanism of action via the ability to sense and automatically clear a blockage versus manual suction through the working channel of a colonoscope, which can clog quickly if there is any appreciable debris. Lastly, the applicant explained that the Pure-Vu® System is an oversleeve device that allows use of the working channel of the colonoscope to be open and allows therapy to be administered in tandem with cleansing, unlike existing technologies on the market.

The applicant noted that the ClearPath system, a colonoscopy system by the company Easy Glide, received FDA clearance, but according to the applicant, was never fully brought to the US market. ClearPath was listed as the predicate device for the initial version of the Pure-Vu System, as the same on September 22, 2016 (FDA 510(k) number K160015), in which both


devices are described as able to irrigate and suction at any time during the procedure without any tools needing to be removed from the colonoscope working channel.\textsuperscript{515} The applicant claimed that this system did not have the High Intensity Pulsed Vortex Irrigation Jet and controlled suction capabilities with the sensing and auto purge technology that is critical to get the desired clinical outcome.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that the Pure-Vu System is assigned to the same MS–DRGs as existing technologies. The applicant lists 21 MS–DRGs as being applicable, with MS–DRG 378 (gastrointestinal hemorrhage with complication or comorbidity (CC)) accounting for 37.1 percent of cases, and MS–DRG 377 (gastrointestinal hemorrhage with major complication or comorbidity (MC)) accounting for 18.9 percent of total cases.

With respect to the third criterion, whether the new use of technology involves the treatment of the same or similar type of disease and the same or similar patient population as existing technology, the applicant stated that the Pure-Vu System does involve treatment of the same or similar type of disease and patient population as existing technology.

After reviewing the information submitted by the applicant, we are unclear whether the Pure-Vu\textsuperscript{®} System’s mechanism of action is similar to that of the version of the product that received initial 510(k) clearance that was approved on September 22, 2016 or other versions of the system. In addition, with regard to the previous versions of Pure-Vu, we are unsure if the limited availability noted by the applicant would allow the technology to be considered commercially available.

We are also unclear what the applicant means regarding the ClearPath system being not fully brought to the U.S. market. If the ClearPath system and/or earlier versions of the Pure-Vu System were considered to be available on the U.S. market, then we are concerned that the current version of Pure-Vu\textsuperscript{®} would no longer be considered new, as we believe it may be substantially similar to ClearPath and/or earlier versions of the Pure-Vu\textsuperscript{®} System because they also allow for irrigation and suction of the colon without utilizing the working channel. If the current version of Pure-Vu is substantially similar to ClearPath and/or previous versions, then it appears that the current Pure-Vu system may no longer be within the newness period. We further note that though the applicant states the Pure-Vu\textsuperscript{®} System features a high intensity pulsed vortex irrigation jet and controlled suction capabilities with sensing and auto purge technology, the Pure-Vu\textsuperscript{®} System irrigates the colon using water and gas like other existing irrigation methods. We are therefore uncertain as to whether these features of the Pure-Vu\textsuperscript{®} System result in a new mechanism of action.

We invite public comment on whether the Pure-Vu\textsuperscript{®} System has a new mechanism of action compared to these predicate devices.

We are inviting public comments on whether the Pure-Vu\textsuperscript{®} System is substantially similar to existing technologies and whether it meets the newness criterion.

With regard to the cost criterion, the applicant searched the FY 2019 MedPAR claims data file with the FY 2019 Final Rule with Correction Notice IPPS Impact File to identify potential cases representing patients who may be eligible for treatment using the Pure-Vu\textsuperscript{®} System. The applicant identified claims that reported an ICD–10–CM diagnosis code of ICD–10–CM Z12.11 (Encounter for screening for malignant neoplasm of colon), K92.2 (Gastrointestinal hemorrhage, unspecified), D50.0 (Iron deficiency anemia secondary to blood loss (chronic)), and C18.\textsuperscript{516} (malignant neoplasm of colon). The ICD–10–PCS procedure codes listed in the following table were used to identify claims involving colonoscopy procedures.

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0D1D8ZZ</td>
<td>Inspection of lower intestinal tract, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0D5M8ZZ</td>
<td>Destruction of descending colon, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0D5N8ZZ</td>
<td>Destruction of sigmoid colon, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0D5L8ZZ</td>
<td>Destruction of transverse colon, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0D5K8ZZ</td>
<td>Destruction of ascending colon, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0W3P8ZZ</td>
<td>Control bleeding in gastrointestinal tract, via natural or artificial opening endoscopic</td>
</tr>
</tbody>
</table>

The claim search conducted by the applicant resulted in 163,236 claims mapping to 633 MS–DRGs. The applicant stated that MS–DRGs 377 (G.I. Hemorrhage W MCC), 378 (G.I. Hemorrhage W CC), and 379 (G.I. Hemorrhage W/O CC/MCC) were the most common MS–DRGs to which cases reporting the listed ICD–10–PCS codes were assigned. The applicant stated that the large number of DRGs to which these cases were assigned suggests that patients were admitted to the hospital for a wide variety of reasons, but during the course of their hospital stay the patients received a colonoscopy.

According to the applicant, since GI bleeding is among the most common reasons for a patient needing an urgent colonoscopy, MS–DRGs 377–379 would be expected to be the most common MS–DRGs to which cases involving the Pure-Vu technology would be assigned. Lastly, the applicant did not have any data available to suggest any specific reasons why potential patients who would be eligible for the Pure-Vu technology would map to specific MS–DRGs identified based on the claims search, such as MS–DRG 291 (Heart Failure and Stroke).

The applicant determined an average unstandardized case weighted charge per case of $63,265.

The applicant did not remove charges for prior technology. The applicant stated that no prior technology is being replaced. The applicant then standardized the charges using the FY 2019 Final Rule with Correction Notice Impact File. Next, the applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges (1.13218). To calculate the charges for the new technology, the applicant used the national average CCR for the


\textsuperscript{516} Fourth character is required to describe specific location of neoplasm.
Supplies and Equipment cost center of 0.297 from the FY 2021 IPPS rule. The applicant calculated a final inflated average case-weighted standardized charge per case of $93,914, which exceeded the average case-weighted threshold amount of $63,265 by $30,649. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

After reviewing the information submitted by the applicant as part of its FY 2022 new technology add-on payment application for the Pure-Vu® System, we note that the MS–DRGs used in the cost analysis were not limited to those describing conditions likely to require a colonoscopy. For example, the applicant included cases assigned to MS–DRG 291 (Heart Failure and Shock with MCC). When included in the cost analysis, the assumption made is that all 1,948 cases for heart failure also had a colonoscopy performed where the technology could have potentially been utilized. We question whether all cases identified by the applicant appropriately represent potential cases eligible for the Pure-Vu® System. We invite public comment on whether the Pure-Vu® System meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that the Pure-Vu® System offers the ability to achieve rapid beneficial resolution of the disease process treatment by achieving rapid and full visualization of the colon, which will improve diagnostic yield and the effectiveness of treatment of diseases of the bowel. The applicant claimed that due to the Pure-Vu® System’s ability to cleanse the colon during the colonoscopy procedure in conjunction with a standard bowel preparation, or with an enema (to allow entry into the rectum) and without any purgative based preparation, the technology allows for earlier intervention. The applicant stated that in the case of an LGIB, this will reduce bleeding by achieving more rapid hemostasis and reduce the overall length of stay in the hospital for a portion of this population. The applicant also asserted the technology reduces the subsequent diagnostic and, in some instances, therapeutic interventions by minimizing aborted and early repeat procedures due to poor visualization caused by inadequate preparation. The applicant stated that the system can provide cleansing and removal of fecal matter, blood and other debris while maintaining the visibility of the colonoscope’s camera and availability of the working channel to apply critical therapies.

In support of its claims, the applicant submitted a self-sponsored, U.S.-based, multicenter, prospective, single arm study in the inpatient setting, analyzing 94 patients, 65 of which (68 percent) had a GI bleed.517 Of the 94 patients (41 percent females/59 percent males), the mean age was 62 years. According to the applicant, the study’s primary endpoint was the rate of improved bowel cleansing level from baseline to after use of the Pure-Vu® System per colon segment using the Boston Bowel Preparation Scale (BBPS). The BBPS score was recorded for each colorectal segment (left colon, transverse colon, and right colon segments) both prior to (baseline) and after colon cleansing with the Pure-Vu® System. An adequate cleansing level was a priori defined as a BBPS ≥2 in all evaluated colon segments. The study found that in 79 of the 94 patients (84 percent), the physician was able to successfully diagnose or rule out a GI bleed in the colon per the patients’ colonoscopy indication using only the Pure-Vu® System. The analysis showed statistically significant visualization improvement in each colon segment after Pure-Vu® use with a mean BBPS score in the descending colon, sigmoid, and rectum of 1.74 pre-Pure-Vu® use and 2.89 post-Pure-Vu® use (P < 0.001); in the transverse colon of 1.74 pre-Pure-Vu® use and 2.91 post-Pure-Vu® use (P < 0.001); and the ascending colon and cecum of 1.50 pre-Pure-Vu® use and 2.86 post-Pure-Vu® use (P < 0.001). The study found only 2 percent of cases where the diagnosis could not be achieved due to inadequate preparation. Overall, the 84 (89.4 percent) patients that received the Pure-Vu® System within the study improved BBPS scores from 38 percent (95 percent CI 28, 49) to 96 percent (95 percent CI 90, 99) in segments evaluated. The study noted one procedure related perforation which required surgical repair, and the patient was discharged 48 hours post operatively and recovered fully.

The applicant also provided three outpatient clinical studies to demonstrate the Pure-Vu® System’s capability to convert patients to adequate preparation where preparation was previously inadequate, and the visualization was poor based on the BBPS. In the first study, Perez J., et al. conducted an outpatient prospective pilot study using the Pure-Vu® System.518 The study observed 50 patients with poorly prepared colons undergoing colonoscopy at two outpatient clinical sites in Spain and Israel, respectively. The applicant claimed study patients underwent a reduced bowel preparation consisting of the following: No dried fruits, seeds, or nuts starting 2 days before the colonoscopy, a clear liquid diet starting 18 to 24 hours before colonoscopy, and a split dose of 20mg oral bisacodyl. The study found the number of patients with an adequate cleansing level (BBPS≥2 in each colon segment) increased significantly from 31 percent (15/49) prior to use of the Pure-Vu System (baseline) to 98 percent (48/49) after use of the Pure-Vu® System (P < 0.001), with no serious adverse events reported.

In the second study provided by the applicant, van Keulen, et al. also conducted a single-arm, prospective study on 47 patients with a median age of 61 years in the outpatient setting in the Netherlands using the Pure-Vu® System.519 Within the study, cecal intubation was achieved in 46/47 patients. This multicenter feasibility study found that the Pure-Vu® System significantly improved the proportion of patients with adequate bowel cleansing from 19.1 percent prior to the use of the Pure-Vu® System to 97.9 percent after its use (P < 0.001) and median BBPS score (from 3.0 [IQR 0.0–5.0] to 9.0 [IQR 8.0–9.0]).

In the third study provided by the applicant that directly evaluated the Pure-Vu® System in a clinical setting, Bertiger G., et al. performed a United States-based single center, prospective, outpatient study investigating regimes of reduced outpatient bowel preparations, which included low doses of over-the-counter laxatives, and eliminating the typical 24 hour clear liquid diet restriction, which was replaced by a low residue diet the day before the procedure. In this study, 46 of a possible 49 patients received a colonoscopy, 8 of which took the over-the-counter laxative (“MiralAX arm”), 21 patients ingested two doses of 7.5 oz Magnesium Citrate (MgC) each taken with 19.5 oz of clear liquid (“Mag Citrate 15 oz arm”), and 18 patients


ingested 2 doses of 5 oz MgC taken with 16 oz of clear liquid (“Mag Citrate 10 oz arm”). Of the 46 subjects, 59 percent were males and there was a mean age of 61±4.8 years. The study found that each of the 3 study arms revealed significant differences in BBPS score between the baseline preparation and post-cleansing via Pure-Vu. All the preparation regimens resulted in inadequately prepped colons. Comparing the mean BBPS rating for both pre- and post-Pure-Vu® use, the MiraLAX arm was inferior (P <0.05) to both Mag Citrate arms. For the MiraLAX arm, the mean BBPS Score improved from 1.50 to 8.63. For the Mag Citrate 15 oz arm, the mean BBPS score improved from 3.62 to 8.95. For the Mag Citrate 10 oz arm, the mean BBPS Score improved from 4.76 to 9.0.

In addition to the retrospective studies provided, the applicant also submitted three case studies to highlight the various clinical presentations of LGIB with the use of the Pure-Vu® System. In the first case, the applicant presented a 71-year-old woman with multiple episodes of bloody bowel movements and low hemoglobin levels for 2 days after a screening colonoscopy where 8 polyps were removed. The applicant stated that the patient underwent a successful colonoscopy using Pure-Vu without standard inpatient bowel preparation within 5 hours, and in addition to expediting the colonoscopy, four significant post-polypectomy ulcers were found and clipped by allowing the physician to cleanse the area while placing the clips simultaneously. The applicant claimed that since the Pure-Vu® System does not impact the use of the endoscope’s working channel, the physician was able to cleanse the area as needed during the intervention to allow precise placement of the clips applied to achieve hemostasis and the patient was discharged that same day.

The applicant submitted another case example where a 52-year-old male was admitted from the emergency department to the ICU due to significant GI bleeding, hemorrhagic shock, and acute kidney injury (AKI) six days after a colonoscopy where nine polyps were removed, including two polyps greater than 2 cm. The applicant stated that angiographic control of the bleeding was not considered due to AKI with rising creatinine, and bedside colonoscopy was immediately performed with the Pure-Vu® System without any bowel prep. Per the applicant, the physician was able to visualize the entire colon to confirm all sources of bleeding and place two clips to obtain hemostasis, and the patient was downgraded out of the ICU that day and discharged from the hospital the following day.

In the third case study submitted by the applicant, a 64-year-old male was admitted to the ICU with one day of bright red blood per rectum (BRBPR) along with a complex set of disorders including but not limited to alcohol use disorder, heart failure with reduced ejection fraction of 30 percent, and multidrug resistant tuberculosis. The Pure-Vu® System was used to attempt to definitively identify the bleeding source in the ICU. The applicant stated that although no active sites of bleeding were seen, red blood was found in the entire colon, and the patient was transferred out of the ICU 2 days later and discharged 3 days after transfer to the floor. The applicant claimed that while the patient’s bleeding had stopped by the time the colon was examined, the ability to directly visualize the entire colon using the Pure-Vu® System helped avoid a third CT angiography during this hospitalization and helped the physicians to confirm that prior coil embolization had not resulted in focal colonic ischemia. The applicant asserted that this case showed that the Pure-Vu® System can be used with minimal preparation, enabling rapid investigation of LGIB in a very complex patient. The applicant concluded that these case studies demonstrate that a change in patient management occurs when the option of the Pure-Vu® System is available, especially when there is an urgent or severe GI bleed, where circumstances and other procedures (such as CT angiography) are insufficient and the option to perform the colonoscopy sooner is preferred.

After reviewing the information submitted by the applicant as part of its FY 2022 new technology add-on payment application for the Pure-Vu® System, we have the following concerns. While the studies provided in support of the Pure-Vu® System measure improvement of bowel preparation using the BBPS, the applicant did not provide data indicating that the improved BBPS directly leads to improved clinical outcomes (for example, reduction of blood loss in LGIB or reduction of missed polyps) based on use of the Pure-Vu® System. Additionally, we note that the applicant has not provided any studies comparing the efficacy of the Pure-Vu® System to other existing methods or products for irrigation in support of its claims that the product is superior at removing debris from the colon while simultaneously preventing the colon from collapsing, allowing use of the working channel, or improving outcomes. Furthermore, we note that many of the provided studies were based on small sample sizes, which may affect the quality and reliability of the data provided in support of the technology. In addition, we note that the methodology described in the provided studies often involved time to adequately prepare the colon and included outpatient planned procedures, which may not reflect the emergent situations that the applicant states the Pure-Vu® System is intended to address in the inpatient setting. We also note that the Helmut, et al. study noted one procedure related perforation which required surgical repair and we invite public comments regarding the concern of procedure related perforation.

We are inviting public comments on whether the Pure-Vu® System meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for the Pure-Vu® System.

o. Rapid ASPECTS

iSchemaView (which is in the process of a name change to RapidAI) submitted an application for new technology add-on payments for Rapid ASPECTS for FY 2022. According to the applicant, Rapid ASPECTS is a computer-aided diagnosis (CADx) software device used to assist the clinician in the assessment and characterization of brain tissue abnormalities using computed tomography (CT) image data. The applicant asserted that the software automatically registers images and segments and analyzes ASPECTS Regions of Interest (ROIs). According to the applicant, Rapid ASPECTS extracts image data for the ROI(s) to provide analysis and computer analytics based on morphological characteristics. The applicant stated that the imaging features are then synthesized by an artificial intelligence algorithm into a single ASPECT Score.

The applicant stated Rapid ASPECTS is indicated for evaluation of patients presenting for diagnostic imaging workup with known Middle Cerebral Artery (MCA) or Internal Carotid Artery (ICA) occlusion, for evaluation of extent of disease. The applicant stated that extent of disease refers to the number of ASPECTS regions affected, which is reflected in the total score. According to the applicant, the Rapid ASPECTS device provides information that may be useful in the
characterization of early ischemic brain tissue injury during image interpretation (within 6 hours). The applicant stated Rapid ASPECTS provides a comparative analysis to the ASPECTS standard of care radiologist assessment using the ASPECTS atlas definitions and atlas display including highlighted ROIs and numerical scoring. The applicant stated that Rapid ASPECTS is not intended for primary interpretation of CT images; it is used to assist physician evaluation. The applicant asserted Rapid ASPECTS has been validated in patients with known MCA or ICA occlusion prior to ASPECT scoring.

According to the applicant, when patients with a suspected stroke arrive at an emergency department, they are rapidly triaged to the CT scanner for a non-contrast CT (NCCT) and CT angiography (CTA). The applicant stated that CTA directly images large vessel occlusions and the NCCT can exclude brain hemorrhage and identify early signs of brain infarction. The applicant asserted that automated large vessel occlusion (LVO) detection software is now used at many sites to quickly identify LVOs on CTA and provide physicians with early notification that an LVO has been identified. The applicant stated that following identification of an LVO, the next imaging evaluation required is for a physician, typically a radiologist or neuroradiologist, to determine the ASPECT score by taking a close look at the NCCT for evidence of early infarct signs. The applicant stated that patients with an ASPECT score between 6 and 10 who meet clinical criteria for thrombectomy should receive thrombectomy as soon as possible, if treatment can occur within 6 hours of symptoms onset. The applicant asserted that for patients who present beyond 6 hours, a CT perfusion or MRI scan are required to identify which patients are eligible for thrombectomy.

The applicant stated approximately 800,000 primary (first-time) or secondary (recurrent) strokes occur each year in the U.S., with the majority being primary strokes (roughly 600,000). Of these strokes, approximately 87% are ischemic infarctions, 10% are primary hemorrhages, and 3% are subarachnoid hemorrhage.520 According to the applicant, the incidence of stroke rapidly increases with age, doubling for each decade after age 55. The applicant asserted that among adults ages 35 to 44, the incidence of stroke is 30 to 120 in 100,000 per year, and for those ages 65 to 74, the incidence is 670 to 970 in 100,000 per year. Therefore, according to the applicant, the primary burden of stroke affects the Medicare-age population. The applicant stated the most disabling strokes are those due to large vessel occlusions (LVOs), and treatment of these strokes has the largest therapeutic benefits.521

The applicant stated that Rapid ASPECTS received FDA 510(k) clearance as a CADx software device on June 26, 2020 and provided a date of first installation of September 1, 2020. The applicant described Rapid ASPECTS as a machine learning-based automated software for assessment of ASPECTS. The applicant asserted that Rapid ASPECTS remains the only cleared ASPECTS software and the only stroke imaging software to receive a CADx clearance by the FDA. The legally marketed predicate device that Rapid ASPECTS is substantially equivalent to, per FDA, is QuantX,522 which was granted De Novo authorization on July 19, 2017. QuantX is a CADx software device used to assist radiologists in the assessment and characterization of breast abnormalities using magnetic resonance (MR) image data and is indicated for evaluation of patients presenting for high-risk screening, diagnostic imaging workup, or evaluation of extent of known disease.523

We note the applicant submitted a request for approval of a unique ICD–10–PCS procedure code to identify use of the technology beginning FY 2022. According to the applicant, this new ICD–10–PCS code would be reported in addition to the non-contrast CT using the appropriate code as listed in current coding systems. As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or a similar mechanism of action to achieve a therapeutic outcome, the applicant asserted Rapid ASPECTS uses a new mechanism of action (machine learning) to assess CT scans and synthesize a single ASPECT score when compared to existing options which are limited to clinical assessment by a human reader. According to the applicant, this software remains the only FDA-cleared ASPECTS software and the only stroke imaging software to receive a CADx clearance by the FDA. The applicant asserted Rapid ASPECTS is fully automated and produces a score for each of the 10 ASPECT regions, as well as a total score in approximately 2 minutes.

With regard to the second criterion, whether the technology is assigned to the same or a different MS–DRG, the applicant stated that cases involving Rapid ASPECTS would be assigned to the same MS–DRGs as cases involving patients confirmed with an eligible LVO by a positive CTA. According to the applicant, in these cases, the traditional clinical pathway requires a physician to determine the ASPECT score through an imaging evaluation. The applicant noted that Rapid ASPECTS may result in patients being assigned to a different MS–DRG depending on whether or not a mechanical thrombectomy is performed as a result of the Rapid ASPECTS results.

With regard to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant asserted Rapid ASPECTS addresses the current stroke population.

In summary, the applicant believes that Rapid ASPECTS is not substantially similar to other currently available therapies because Rapid ASPECTS uses a new mechanism of action (machine learning) to assess CT scans and synthesize a single ASPECT score. We are unclear as to whether machine learning to assess CT scans and synthesize a single ASPECT score would represent a unique mechanism of action, or how the mechanism of action by which Rapid ASPECTS assesses stroke imaging is distinct from other automated stroke imaging analysis tools, or the traditional hospital workflow.

We continue to be interested in public comments regarding issues related to determining newness for technologies that use AI, an algorithm or software, as discussed in the FY 2021 IPPS/LTCPPS final rule (85 FR 58628). Specifically, we are interested in public comment on how these technologies, including devices classified as radiological computer aided triage and notification software and radiological computer-assisted diagnostic software, may be considered for the purpose of identifying a unique mechanism of


523 QuantX De Novo decision summary from FDA: https://www.accessdata.fda.gov/cdrh_docs/reviews/DE170022.pdf.
action; how updates to AI, an algorithm or software would affect an already approved technology or a competing technology; whether software changes for an already approved technology could be considered a new mechanism of action, and whether an improved algorithm by competing technologies would represent a unique mechanism of action if the outcome is the same as an already approved AI new technology.

We invite public comments on whether Rapid ASPECTS is substantially similar to existing technologies, including specifically with respect to the mechanism of action, and whether it meets the newness criterion.

With respect to the cost criterion, the applicant provided three analyses: (1) A baseline analysis containing all cases reporting one of the targeted ICD–10–CM codes below as the principal diagnosis code for cerebral infarction that map to one of the applicant’s targeted MS–DRGs; (2) an analysis limited to MS–DRGs with a case volume over 100; and (3) an analysis limited to MS–DRGs 023, 062, 064, 065, and 066, which per the applicant would reflect 80 percent of all stays. For the baseline analysis, the applicant first extracted all inpatient stays from the CY 2018 Limited Data Set Standard Analytic File (LDS SAF) that contained a principal ICD–10–CM diagnosis code for cerebral infarction. The applicant used the following ICD–10–CM diagnosis codes.
An Inpatient Stay Must Have At Least One Of The Listed Cerebral Infarction Diagnosis Codes As A Principal Diagnosis Code To Be Included In The Analysis

<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>163.311</td>
<td>Cerebral infarction due to thrombosis of right middle cerebral artery</td>
</tr>
<tr>
<td>163.312</td>
<td>Cerebral infarction due to thrombosis of left middle cerebral artery</td>
</tr>
<tr>
<td>163.313</td>
<td>Cerebral infarction due to thrombosis of bilateral middle cerebral arteries</td>
</tr>
<tr>
<td>163.319</td>
<td>Cerebral infarction due to thrombosis of unspecified middle cerebral artery (NOTE: Not a legitimate billing code)</td>
</tr>
<tr>
<td>163.321</td>
<td>Cerebral infarction due to thrombosis of right anterior cerebral artery</td>
</tr>
<tr>
<td>163.322</td>
<td>Cerebral infarction due to thrombosis of left anterior cerebral artery</td>
</tr>
<tr>
<td>163.323</td>
<td>Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries</td>
</tr>
<tr>
<td>163.329</td>
<td>Cerebral infarction due to thrombosis of unspecified anterior cerebral artery (NOTE: Not a legitimate billing code)</td>
</tr>
<tr>
<td>163.331</td>
<td>Cerebral infarction due to thrombosis of right posterior cerebral artery</td>
</tr>
<tr>
<td>163.332</td>
<td>Cerebral infarction due to thrombosis of left posterior cerebral artery</td>
</tr>
<tr>
<td>163.333</td>
<td>Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries</td>
</tr>
<tr>
<td>163.411</td>
<td>Cerebral infarction due to embolism of right middle cerebral artery</td>
</tr>
<tr>
<td>163.412</td>
<td>Cerebral infarction due to embolism of left middle cerebral artery</td>
</tr>
<tr>
<td>163.413</td>
<td>Cerebral infarction due to embolism of bilateral middle cerebral arteries</td>
</tr>
<tr>
<td>163.421</td>
<td>Cerebral infarction due to embolism of right anterior cerebral artery</td>
</tr>
<tr>
<td>163.422</td>
<td>Cerebral infarction due to embolism of left anterior cerebral artery</td>
</tr>
<tr>
<td>163.423</td>
<td>Cerebral infarction due to embolism of bilateral anterior cerebral arteries</td>
</tr>
<tr>
<td>163.431</td>
<td>Cerebral infarction due to embolism of right posterior cerebral artery</td>
</tr>
<tr>
<td>163.432</td>
<td>Cerebral infarction due to embolism of left posterior cerebral artery</td>
</tr>
<tr>
<td>163.433</td>
<td>Cerebral infarction due to embolism of bilateral posterior cerebral arteries</td>
</tr>
<tr>
<td>163.442</td>
<td>Cerebral infarction due to embolism of left cerebellar artery</td>
</tr>
<tr>
<td>163.511</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery</td>
</tr>
<tr>
<td>163.512</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery</td>
</tr>
<tr>
<td>163.513</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries</td>
</tr>
<tr>
<td>163.521</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery</td>
</tr>
<tr>
<td>163.522</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery</td>
</tr>
<tr>
<td>163.523</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries</td>
</tr>
<tr>
<td>163.531</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery</td>
</tr>
<tr>
<td>163.532</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery</td>
</tr>
<tr>
<td>163.533</td>
<td>Cerebral infarction due to unspecified occlusion or stenosis of posterior cerebral arteries</td>
</tr>
<tr>
<td>166.01</td>
<td>Occlusion and stenosis of right middle cerebral artery not resulting in cerebral infarction</td>
</tr>
<tr>
<td>166.02</td>
<td>Occlusion and stenosis of left middle cerebral artery not resulting in cerebral infarction</td>
</tr>
</tbody>
</table>
The applicant then removed cases for hospitals that are not paid under the IPPS. The applicant also removed inpatient stays and their assigned MS–DRGs from its analysis where the assigned MS–DRG met any of the following conditions: (1) The MS–DRG is for a part of the body not related to the head; (2) the MS–DRG is a psychiatric MS–DRG, alcohol-related MS–DRG, or a catchall MS–DRG; (3) the MS–DRG has a very small number of cases; or (4) the MS–DRG is unlikely to involve an LVO. The applicant identified 66,990 cases mapping to 27 MS–DRGs, as listed in the following table, in descending order by volume:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>MS-DRG Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>065</td>
<td>Intracranial Hemorrhage or Cerebral Infarction w CC or TPA in 24 Hrs</td>
</tr>
<tr>
<td>064</td>
<td>Intracranial Hemorrhage or Cerebral Infarction w MCC</td>
</tr>
<tr>
<td>023</td>
<td>Craniotomy w Major Device Implant or Acute CNS Pdx w MCC or Chemotherapy Implant or Epilepsy w Neurostimulator</td>
</tr>
<tr>
<td>066</td>
<td>Intracranial Hemorrhage or Cerebral Infarction w/o CC/MCC</td>
</tr>
<tr>
<td>062</td>
<td>Ischemic Stroke, Precerebral Occlusion or Transient Ischemia w Thrombolytic Agent w CC</td>
</tr>
<tr>
<td>024</td>
<td>Crani w Major Dev Impl/Acute Complex CNS Pdx w/o MCC</td>
</tr>
<tr>
<td>061</td>
<td>Ischemic Stroke, Precerebral Occlusion or Transient Ischemia w Thrombolytic Agent w MCC</td>
</tr>
<tr>
<td>027</td>
<td>Craniotomy &amp; Endovascular Intracranial Procedures w/o CC/MCC</td>
</tr>
<tr>
<td>026</td>
<td>Craniotomy &amp; Endovascular Intracranial Procedures w CC</td>
</tr>
<tr>
<td>025</td>
<td>Craniotomy &amp; Endovascular Intracranial Procedures w MCC</td>
</tr>
<tr>
<td>063</td>
<td>Ischemic Stroke, Precerebral Occlusion or Transient Ischemia w Thrombolytic Agent w/o CC/ MCC</td>
</tr>
<tr>
<td>068</td>
<td>Non-specific CVA &amp; Precerebral Occlusion w/o Infarct w/o MCC</td>
</tr>
<tr>
<td>038</td>
<td>Extracranial Procedures w CC</td>
</tr>
<tr>
<td>003</td>
<td>ECMO or Trach w MV &gt;96 Hrs or Pdx Exc Face, Mouth &amp; Neck w Maj O.R.</td>
</tr>
<tr>
<td>037</td>
<td>Extracranial Procedures w MCC</td>
</tr>
<tr>
<td>093</td>
<td>Other Disorders of Nervous System w/o CC/MCC</td>
</tr>
<tr>
<td>092</td>
<td>Other Disorders of Nervous System w CC</td>
</tr>
<tr>
<td>004</td>
<td>Trach w MV &gt;96 Hrs or Pdx Exc Face, Mouth &amp; Neck w/o Maj O.R.</td>
</tr>
<tr>
<td>091</td>
<td>Other Disorders of Nervous System w MCC</td>
</tr>
<tr>
<td>034</td>
<td>Carotid Artery Snt Procedure w MCC</td>
</tr>
<tr>
<td>035</td>
<td>Carotid Artery Snt Procedure w CC</td>
</tr>
<tr>
<td>039</td>
<td>Extracranial Procedures w/o CC/MCC</td>
</tr>
<tr>
<td>071</td>
<td>Non-specific Cerebrovascular Disorders w CC</td>
</tr>
<tr>
<td>067</td>
<td>Non-specific CVA &amp; Precerebral Occlusion w/o Infarct w MCC</td>
</tr>
<tr>
<td>070</td>
<td>Non-specific Cerebrovascular Disorders w MCC</td>
</tr>
<tr>
<td>036</td>
<td>Carotid Artery Snt Procedure w/o CC/MCC</td>
</tr>
<tr>
<td>072</td>
<td>Non-specific Cerebrovascular Disorders w/o CC/MCC</td>
</tr>
</tbody>
</table>

The applicant then standardized the charges and applied the 2-year charge inflation factor of 13.2 percent used to adjust the outlier threshold determination (85 FR 59039). The applicant did not remove charges for prior technology, as the applicant believes Rapid ASPECTS does not eliminate or replace any prior technology or services. The applicant also noted that it did not remove charges related to the prior technology, as the applicant believes Rapid ASPECTS does not reduce costs during the inpatient stay.
The applicant then added charges for the technology. The applicant stated that it estimated the cost per case of Rapid ASPECTS using historical utilization data gathered from its Rapid CTA module. The applicant anticipates Rapid ASPECTS will be used in the same hospital sites as Rapid CTA, which also provides the applicant with a baseline number of Medicare and non-Medicare patients who were identified with a suspected LVO. The applicant estimated that approximately 20.5 percent of all patients who received a RAPID CTA scan qualified as inpatients eligible for a Rapid ASPECTS scan. The applicant divided the total number of qualified Medicare and non-Medicare inpatients by the total number of subscriber hospitals to arrive at an average number of inpatients eligible to be scanned with Rapid ASPECTS per subscriber hospital per year. The applicant then took the estimated average sales price per annual contract of Rapid ASPECTS per hospital and divided it across the estimated annual number of Rapid ASPECTS inpatients per site to estimate the average cost per case per subscriber hospital. Finally, the applicant divided the average cost per case by the national average CCR for radiology of 0.136 (85 FR 58601).

The applicant calculated a case-weighted threshold amount of $76,398 and a final inflated average case-weighted standardized charge per case of $90,097. Based on this analysis, the applicant asserted that Rapid ASPECTS meets the cost criterion because the final inflated average case-weighted standardized charge per case exceeds the case-weighted threshold amount. The applicant submitted two additional scenarios to demonstrate that the technology meets the cost criterion using the same methodology described but with limits on the cases. The first scenario limited the analysis to MS–DRGs with at least 100 cases. This resulted in a case-weighted threshold of $76,457 and a final inflated average case-weighted standardized charge per case of $90,172. The second scenario limited the analysis to MS–DRGs 023, 062, 064, 065, and 066, which per the applicant reflect 80 percent of all stays. This second alternative method resulted in a case-weighted threshold of $67,890 and a final inflated average case-weighted standardized charge per case of $77,614. Across all three analyses, the applicant maintained that the technology meets the cost criterion because the final inflated average case-weighted standardized charge per case exceeds the average case-weighted threshold amount.

We note the following concerns regarding the cost analysis for Rapid ASPECTS. The applicant stated it removed from its analysis those cases and their assigned MS–DRG where the assigned MS–DRG was for a body part that is not the head; however the list of MS–DRGs the applicant presented included MS–DRGs 37 (Extracranial Procedures w/MCC) and 38 (Extracranial Procedures w/CC), which by definition describe procedures outside of the head. We would like to understand why these MS–DRGs and their assigned cases were included in the baseline analysis. We would also like to understand the time period of the claims the applicant selected from the CY 2018 SAF, as this could have implications for the inflation factor used to update charges if the applicant selected claims from FY 2018 as opposed to FY 2019.

The applicant appears to have used a single list price of Rapid ASPECTS per hospital with a cost per patient that can vary based on the volume of cases. We note that the cost per patient varies based on the utilization of the technology by the hospitals. The cost per patient could be skewed by the small number of hospitals utilizing the technology and their low case volumes. It is possible, if hospitals with large patient populations adopt Rapid ASPECTS, the cost per patient would be significantly lower.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58630), we stated our intent to continue to consider the issues relating to the calculation of the cost per unit of technologies sold on a subscription basis as we gain more experience in this area. We continue to welcome comments from the public as to the appropriate method to determine a cost per case for such technologies, including comments on whether the cost per case should be estimated based on subscriber charge data as described previously, and if so, whether the cost analysis should be updated based on the most recent subscriber data for each year for which the technology may be eligible for the new technology add-on payment.

We invite public comment on whether Rapid ASPECTS meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted Rapid ASPECTS represents a substantial clinical improvement over existing technologies because it improves diagnostic decisions by improving accuracy of ASPECT scoring. The applicant also asserted it improves diagnostic decisions by reducing inter-rater variability of ASPECT scoring. The applicant also asserted it represents a substantial clinical improvement by improving treatment decisions and by improving time to treatment.

According to the applicant, the first stroke treatment, tissue plasminogen activator (tPA), was first approved in the United States for intravenous administration to patients with acute stroke in 1996, and a study demonstrating successful catheter-directed intra-arterial infusion of a thrombolytic agent for this indication was first published in 1999.524 The applicant asserted that the first positive randomized controlled studies using modern mechanical thrombectomy devices for LVO stroke were published in 2015 and support combined treatment with tPA and catheter-based thrombectomy as the most effective treatment approach for patients who can be treated within six hours of symptom onset.525 According to the applicant, following the publication of these trials, the American Heart Association (AHA) and American Stroke Association (ASA) released new guidelines in 2016, 2018 and 2019 that all specified the following Level 1A recommendation: Patients should receive mechanical thrombectomy with a stent retriever if they meet all the following criteria:

- Pre-stroke modified Rankin Score (mRS) score of 0 to 1.
- Causative occlusion of the internal carotid artery (ICA) or middle cerebral artery (MCA) segment 1 (M1).
- Age ≤21 years.
- NIH Stroke Scale (NIHSS) score of ≥6.
- Alberta stroke program early CT score (ASPECTS) of ≥6.
- Treatment can be initiated (groin puncture) within 6 hours of symptom onset.520

According to the applicant, the above-recommended guidelines from the

AHA/ASA have been widely accepted and outline the key requirements that are still used today to select early window (less than 6 hours) candidates for thrombectomy. The applicant asserted the imaging requirements (the second and the fifth criterion) require that patients be screened for an LVO or CTA and then once an LVO in the ICA or MCA is discovered, the ASPECTS score must be assessed to verify that it is 6 or higher. According to the applicant in patients meeting the brain imaging entry criteria for inclusion in these randomized trials, the applicant asserted that within this period, functional outcomes were better the sooner after onset that endovascular reperfusion was achieved, emphasizing the importance of programs to enhance patient awareness, out-of-hospital care, and in-hospital management to shorten symptom onset-to-treatment times. The applicant asserted that the magnitude of the association between time to treatment and outcome is clinically meaningful. According to the applicant, in patients with acute ischemic stroke due to LVO, among every 1000 patients achieving substantial endovascular reperfusion, for every 15-minutes faster emergency department door-to-reperfusion time, an estimated 39 patients would have a less-disabled outcome at 3 months, including 25 more who would achieve functional independence (mRS 0–2).


The applicant stated that in addition to faster time from emergency department door to reperfusion, faster time from brain imaging to reperfusion was associated with better 3-month functional outcomes.529

According to the applicant, the interpretation of early infarct signs in CT first became clinically important following the FDA approval of tPA for stroke treatment in 1996 because it was shown that the response to tPA could be predicted based on the degree of early brain injury that could be visualized on the CT scan. The applicant asserted it was clear that intravenous tPA could be harmful in patients with advanced early infarct signs because they had a high risk of intracranial hemorrhage. The applicant stated, however, only rough qualitative estimates of the degree of early infarct signs were performed. The applicant asserted stroke clinicians generally felt safe to give tPA if the early infarct signs were confined to less than one-third of the middle cerebral artery territory.530

According to the applicant, beginning in the 2000s, more detailed and quantitative analysis of early infarct signs was proposed: The Alberta Stroke Program Early CT score (ASPECTS).531

The applicant stated this score requires the evaluation of 10 pre-defined MCA vascular territories. The applicant asserted these individual regions are assessed for focal hypoattenuation of the cortex and in the basal ganglia, reduction of gray and white matter differentiation, and the loss of the insular ribbon sign. According to the applicant, ASPECTS is calculated by subtracting 1 point for each involved region; scores less than 6 typically signify patients with an irreversible large hemispheric infarction.532

According to the applicant, the ASPECTS evaluation became clinically essential in 2015 after mechanical thrombectomy was associated with improved outcomes.533 Functional independence (mRS 0–2).529

The applicant stated that in patients with lower ASPECT scores than the MR CLEAN trial, which enrolled patients with higher ASPECT scores than the other four trials, reported the smallest overall treatment effect and in particular, patients with an ASPECT score less than 5 did not show benefit with an adjusted odds ratio close to 1.0.533

The applicant asserted that for these reasons, an ASPECTS evaluation is required in most national and international thrombectomy guidelines. The applicant stated most guidelines, including the AHA/ASA guidelines discussed above, require an ASPECT score greater than or equal to six for a patient to qualify for thrombectomy in the early treatment window.536

The applicant asserted ASPECT score determination is challenging because early infarct signs are often very subtle and challenging to interpret correctly. According to the applicant, there is often disagreement between experts on the exact score and sometimes these disagreements preclude a definite answer regarding if the patient qualifies for thrombectomy or not. The applicant asserted these interpretation challenges are manifested by limited inter-rater


agreement, even among experts.  

The applicant cited the DEFUSE 2 study in which two expert readers graded ischemic change on NCCT using the ASPECT score. The applicant asserted that full-scale agreement (measured by the intraclass correlation coefficient) for CT–ASPECTS was only moderate at 0.57.  

According to the applicant, these inter-rater differences can have important clinical implications, as discussed further. The applicant asserted that many physicians who evaluate acute stroke patients are not confident that they can accurately determine an ASPECT score, and oftentimes there are significant delays before a radiologist reads the scan.  

The applicant stated current AHA/ASA guidelines recommend a CT scan be performed within 25 minutes of Emergency Department arrival and the radiologist interpretation of the scan occur within 45 minutes of arrival.  

According to the applicant, based on these guidelines, radiologists have about 20 minutes to read the scan, however, many hospitals, especially community and primary stroke centers, do not meet these guidelines. The applicant asserted Medicare data indicate that only 72% of patients meet these guidelines. The applicant stated that automated software, such as Rapid ICH, Rapid LVO and Rapid ASPECTS can assess CT and CTA findings (both to rule out hemorrhage, confirm an LVO and to assess early signs of infarction with ASPECTS) within minutes.  

According to the applicant, the limited inter-rater agreement for traditional ASPECT scoring can lead to triaging ineligible patients to thrombectomy or failing to treat eligible patients. The applicant cited a study in which four experienced readers rated ASPECT scores in patients who presented with LVO and severe strokes.  

The applicant stated the inter-rater agreement between these raters was poor with an interclass correlation of 0.32.  

According to the applicant, the range of agreement for individual raters with the gold standard assessment of the score (obtained with a concurrent MRI) for identifying patients with a score less than six ranged from 35% to 94%. The applicant asserted this study demonstrates there can be substantial disagreement between physicians regarding if a patient is eligible for thrombectomy based on their assessment of the ASPECT score, which can lead to eligible patients not receiving this highly effective therapy, as well as the performance of unnecessary procedures.  

The applicant asserted that particularly the Medicare population might be at risk and impacted by these limitations as the majority of LVOs occur in the Medicare population. The applicant stated that the average age of patients in the HERMES pooled analysis of thrombectomy studies was 68 years.  

Therefore, according to the applicant, inaccuracy of traditional ASPECT scoring translates into a substantial percentage of Medicare patients having erroneous triage decisions made regarding their eligibility for thrombectomy, which it asserted can result in unnecessary procedures and increased Medicare costs, as well as increased disability in eligible patients who are not treated because of inaccurate ASPECT scoring.  

As stated previously, the applicant asserted Rapid ASPECTS represents a substantial clinical improvement over existing technologies because it improves diagnostic decisions by improving accuracy of ASPECT scoring. The applicant submitted three retrospective cohort studies (two peer-reviewed and one under review) to support the claim that diagnostic decisions made by clinicians would have been improved with use of Rapid ASPECTS. According to the applicant, two of these studies showed that the automated Rapid ASPECTS score is significantly more accurate than the scores obtained by experienced clinicians.  

The applicant submitted a retrospective cohort study which compared ASPECT scoring of CT images from patients with MCA occlusion (n=100) between Rapid ASPECTS software and two expert neuroradiologist reads. According to the applicant, Rapid ASPECTS showed a substantial agreement (k=0.78) when imaging took place more than 1 hour after symptom onset, which increased to high agreement (k=0.92) for imaging occurring after 4 hours. The applicant asserted that the neuroradiologist raters did not achieve comparable results to the software until the time interval of greater than 4 hours (k=0.83 and k=0.76). In this study, experts developed the reference consensus score and then, after 6 weeks, the same two neuroradiologists again determined ASPECTS by using only the baseline CT. The experts had moderate agreement with the consensus score (k=0.57 and k=0.57) while Rapid ASPECTS had better agreement (k=0.9). There was minimal agreement across experts and software in the timeframe of less than 1 hour between symptom onset and imaging, but better software agreement when the time was between 1 and 4 hours. There was agreement across experts for imaging occurring after 4 hours. According to the applicant, this study showed that in acute stroke of the MCA, Rapid ASPECTS had better agreement than that of human readers with a predefined consensus score.  

The applicant submitted another retrospective cohort study to compare Rapid ASPECTS, as well as the mean score from four experienced readers, with a diffusion-weighed magnetic resonance imaging (DW–MRI) ASPECTS obtained following the baseline CT in patients (n=65) with large hemispheric infarcts. DW–MRI is sensitive in the detection of small and early infarcts. Small infarcts might not appear on CT scans for days. The AHA/ASA guidelines state that DW–MRI can be useful for selecting candidates for mechanical thrombectomy between 6 and 24 hours after the patient was last known well (that is, the time at which the patient was known to be without signs and symptoms of the current stroke).  

According to the applicant, Rapid ASPECTS showed substantial agreement (k=0.78) when imaging took place more than 1 hour after symptom onset, which increased to high agreement (k=0.92) for imaging occurring after 4 hours. The applicant asserted that the neuroradiologist raters did not achieve comparable results to the software until the time interval of greater than 4 hours (k=0.83 and k=0.76). In this study, experts developed the reference consensus score and then, after 6 weeks, the same two neuroradiologists again determined ASPECTS by using only the baseline CT. The experts had moderate agreement with the consensus score (k=0.57 and k=0.57) while Rapid ASPECTS had better agreement (k=0.9). There was minimal agreement across experts and software in the timeframe of less than 1 hour between symptom onset and imaging, but better software agreement when the time was between 1 and 4 hours. There was agreement across experts for imaging occurring after 4 hours. According to the applicant, this study showed that in acute stroke of the MCA, Rapid ASPECTS had better agreement than that of human readers with a predefined consensus score.  

The applicant submitted another retrospective cohort study to compare Rapid ASPECTS, as well as the mean score from four experienced readers, with a diffusion-weighed magnetic resonance imaging (DW–MRI) ASPECTS obtained following the baseline CT in patients (n=65) with large hemispheric infarcts. DW–MRI is sensitive in the detection of small and early infarcts. Small infarcts might not appear on CT scans for days. The AHA/ASA guidelines state that DW–MRI can be useful for selecting candidates for mechanical thrombectomy between 6 and 24 hours after the patient was last known well (that is, the time at which the patient was known to be without signs and symptoms of the current stroke).
According to the applicant, Rapid ASPECTS’ automated score had a higher level of agreement with the mean of the DW–MRI ASPECTS, both for the full scale and for the dichotomized scale of either <6 or ≥6 which is the difference for treatment/no treatment (difference in intraclass correlation coefficient, p<0.001). The applicant stated that the mean DW–MRI ASPECTS score was <6 in 63/65 (97%) of the cases; of these, RAPID ASPECTS agreed with the DW–MRI score in 46/63 (73%) of the cases (95% confidence interval [CI] 60–83%) vs. 35/63 56% of the cases (95% CI 44–69%) for the median score of the two experienced readers (p=0.027). The range of agreement for individual clinician CT ASPECTS with the median DW–MRI score for identifying patients with a score <6 was 35% to 94%. According to the applicant, this study demonstrated the accuracy for determining which patients have an ASPECTS <6 (which would exclude them from thrombectomy) was significantly higher with the software.549

The applicant submitted an additional retrospective cohort study under review for publication which compared physicians’ (two expert neuroradiologists and six typical readers) ability to read ASPECTS in patients with an LVO (n=50; 10 regions in each patients’ scan for a total of 500 individual regions) within 6 hours of symptom onset when assisted by Rapid ASPECTS, compared with their unassisted score. The applicant stated that the average ASPECT score of three additional experienced neuroradiologists who were provided access to a follow-up MRI was used as the reference standard. The applicant asserted that when typical readers read the scan in conjunction with the Rapid ASPECTS software, their agreement with the expert reads improved from 72% to 78% (p=0.0001, test of proportions). According to the applicant, Rapid ASPECTS alone achieved correlations for total ASPECT scores that were similar to the three experienced neuroradiologist readers who had access to a follow-up MRI scan to help enhance the quality of their reads. The applicant asserted the results from this study showed that the aid of Rapid ASPECTS can significantly improve typical readers’ scores and that the automated scores generated by Rapid ASPECTS are interchangeable with the scores generated by expert neuroradiologists.550

As stated previously, the applicant asserted Rapid ASPECTS represents a substantial clinical improvement over existing technologies because it improves diagnostic decisions by reducing inter-rater variability of ASPECT scoring. To support this claim the applicant submitted the study performed by iSchemaView and analyzed by an independent statistician that led to the FDA clearance of Rapid ASPECTS. According to the applicant, acute CT scans in patients with LVO (n=50) were read by eight readers both with and without Rapid ASPECTS. The applicant asserted that the standard deviation of ASPECT scores ranged from 0.35 to 4.5 without assistance as compared to 0.46 to 4.7 with assistance. The applicant stated that the median standard deviation dropped from 2.2 to 1.4 when assistance was used to read the scans. According to the applicant, a t-test to evaluate the hypothesis of equal standard deviations supported a significant difference in standard deviations (p=0.0002), and non-parametric tests arrived at the same conclusion (p<0.0001 for a Wilcoxon Rank Sum Test).551

As stated previously, the applicant asserted Rapid ASPECTS represents a substantial clinical improvement by improving treatment decisions and by improving time to treatment. The applicant asserted that in the study performed by iSchemaView of the acute CT scans in patients with LVO (n=50) which were read by eight readers both with and without Rapid ASPECTS, a Receiver Operating Characteristic (ROC) analysis demonstrated significant improvement in typical readers’ ability to identify patients who have a score of 6 to 10 if they read the scan in conjunction with the automated score. According to the applicant, the area under the curve (AUC) improved from 0.78 without Rapid ASPECTS to 0.85 with Rapid ASPECTS (p=0.0049).

The applicant asserted that of the 400 treatment assessments (50 scans * 8 readers) in this study, 7% were changed from an incorrect assessment to a correct assessment when the scan was read in conjunction with the automated score compared with traditional scoring, a statistically significant difference.552


the applicant describes as having low levels of agreement, is representative of a meaningful value as it does not represent the score of any particular radiologist. We further question whether individuals participating in these studies may have altered their behavior in a substantive way by interacting with computer-generated ratings, which would complicate study findings.

We further note that the agreement between the ASPECT scoring of expert and Rapid ASPECTS is the primary outcome in the study provided. Though this information may be important and informative, it is not clear that a high agreement between expert and Rapid ASPECTS scoring is necessarily indicative of substantial clinical improvement. Furthermore, whether these providers agree with the technology does not determine whether they are correct, and it could be the case that both AI and radiologists agree on an incorrect score.

We note that the radiologists read the CT scan of acute stroke patients was not confident that they can accurately determine an ASPECT score, but it did not provide evidence to support this claim. Additionally, we observe that the studies provided did not demonstrate improvements in clinical outcomes such as disability, mortality, or length of stay; rather, improved outcomes were inferred by relying on the assumption that faster treatment results in better outcomes. Without measuring the impact of the technology on treatment outcomes, we are uncertain whether Rapid ASPECTS represents a substantive clinical improvement.

Lastly, we note that the radiologists read the CT scan of acute ischemic stroke patients within 20 minutes. The stroke literature review identified the inter-rater differences among ASPECT scoring, but did not demonstrate that inter-rater disagreements have led to triaging ineligible patients to thrombectomy or failing to treat eligible patients in clinical practice. It is unclear how the literature on inter-rater reliability for ASPECT scoring would demonstrate a substantial clinical improvement in how Rapid ASPECTS supports improved triaging of stroke care. The applicant’s stroke literature review also identified that faster treatment leads to better outcomes. While this supports the urgency of stroke care, we are unsure how it demonstrates a substantial clinical improvement in how Rapid ASPECTS supports the urgency of stroke care.

We are inviting public comments on whether Rapid ASPECTS meets the substantial clinical improvement criterion.

In this section, we summarize and respond to written public comments received in response to the New Technology Town Hall meeting published in the Federal Register regarding the substantial clinical improvement criterion for Rapid ASPECTS.

Comment: Several commenters, some of whom participated in one of the retrospective studies assessing Rapid ASPECTS, asserted that Rapid ASPECTS offers a substantial clinical improvement over the current standard of care for evaluation and treatment of patients diagnosed with acute ischemic stroke (AIS). They cited the studies summarized in this section and their clinical experience with Rapid ASPECTS and stated that Rapid ASPECTS improves treatment decisions by improving the accuracy of the assessment of candidates eligible for thrombectomy as well as reducing the time to appropriate treatment, which leads to better outcomes.

Response: We thank the commenters for their input and will take this information into consideration when deciding whether to approve new technology add-on payments for Rapid ASPECTS.

Comment: The applicant responded to the questions received at the New Technology Town Hall Meeting held in December 2020.

First, the applicant was asked if an ROC analysis had been performed with Rapid ASPECTS. The applicant stated that an ROC analysis had been performed for one of the retrospective studies assessing Rapid ASPECTS (Delio et al., 2020, under review). According to the applicant, the scoring for the 500 ASPECT regions for all 8 readers was reviewed without Rapid with RAPID-assisted reads. The applicant stated the reference standard was the read from three experienced neuroradiologists who were provided access to a follow-up MRI scan to help enhance the accuracy of the reference standard. The applicant asserted that the difference of 0.06 between the AUCs is statistically significant (p=0.0049).

Second, the applicant was asked if clinical benefits of Rapid ASPECTS were directly observed in prospective studies using the Rapid ASPECTS software. The applicant cited a recent retrospective study reporting a series of 176 patients from one hospital in Alexandria, Egypt, diagnosed with Acute Ischemic Stroke (AIS) and subsequently treated with tPA between January 2018 and December 2019. Results were reported on 122 of these patients; 36 had their NCCT images analyzed by Rapid ASPECTS and 86 had their NCCT images analyzed by a remote neuroradiologist who received the image by the text messaging platform WhatsApp. The applicant asserted that Rapid ASPECTS had excellent agreement (κ=0.80) with the neuroradiologist’s read. The door-to-needle time for the 86 WhatsApp-road patients was 52.3 ±16 minutes and for the 36 Rapid ASPECTS patients was 36.8 ±11 minutes (p=0.001), representing a 14-minute reduction in the door-to-treatment time in Rapid ASPECTS group compared with the WhatsApp standard care group.

According to the applicant, there was also a significantly increased likelihood of functional independence and fewer hemorrhagic complications in patients treated with rapid ASPECTS interfering with the variety of health care settings in the United States. We question whether the fact that the radiologists in this study received the images via WhatsApp is generalizable to a single hospital in Alexandria, Egypt, may limit the ability to assert findings are generalizable across the variety of health care settings in the United States. We also note the study did not attempt to control for other variables such as the mix of patients in each group or time of day or other changes.
The applicant described the Steripath® Micro™ ISDD® as inspired by patients who present with symptoms concerning for sepsis and who are hypotensive (low blood pressure) and hypovolemic (low blood volume), have difficult intravenous access (DIVA), or are small in stature with lower blood volume. According to the applicant, clinicians typically utilize a syringe technique to collect blood from this patient population to enable management of negative pressure (attempting to avoid vein collapse) while improving the opportunity to collect a sufficient volume of blood to culture, which the applicant stated is a critical determinant of blood culture sensitivity (that is, avoiding false negative results). The applicant claimed that this patient population is generally ineligible for existing ISDD® technologies due to risk of vein collapse. According to the applicant, the negative pressure created by Steripath® Micro™ ISDD®'s bladder-driven mechanism is designed to achieve initial specimen diversion while avoiding collapsing of the veins (losing venous access) of this patient population. The applicant stated that the Steripath® Micro™ ISDD® is available with a preassembled sterile integrated syringe for syringe-driven diversion and blood culture sample collection, and components of the system may be used for infusion following sample collection after disconnection of the ISDD®.

According to the applicant, blood culture is the gold standard diagnostic test for bloodstream infections, including septicemia. The applicant explained that blood cultures are drawn from patients displaying symptoms of a potential bloodstream infection with results guiding therapeutic decisions and influencing outcomes for patients for their duration in acute care. The applicant stated that the standard of care is to collect two separate blood cultures, each consisting of two blood culture bottles containing aerobic or anaerobic medium. The applicant further noted that the major automated microbial blood culture detection systems (BACTEC and BacT/ALERT) recommend 8–10 mL of blood in each of the aerobic and anaerobic bottles—up to 40 mL total distributed across all four bottles.

The applicant stated that despite the critical role blood culture plays in providing diagnoses, an estimated 20 percent to over 50 percent of all positive blood culture results for sepsis are suspected to be false positive due to blood culture contamination, as explained in greater detail below. The applicant stated that blood culture contamination creates clinical confusion which leads to a risk of inappropriate antibiotic therapy.

The applicant stated that blood culture contamination creates clinical confusion which leads to a risk of inappropriate antibiotic therapy. The applicant further noted that the major automated microbial blood culture detection systems (BACTEC and BacT/ALERT) recommend 8–10 mL of blood in each of the aerobic and anaerobic bottles—up to 40 mL total distributed across all four bottles. The applicant stated that despite the critical role blood culture plays in providing diagnoses, an estimated 20 percent to over 50 percent of all positive blood culture results for sepsis are suspected to be false positive due to blood culture contamination, as explained in greater detail below. The applicant stated that blood culture contamination creates clinical confusion which leads to a risk of inappropriate antibiotic therapy. The applicant further noted that the major automated microbial blood culture detection systems (BACTEC and BacT/ALERT) recommend 8–10 mL of blood in each of the aerobic and anaerobic bottles—up to 40 mL total distributed across all four bottles.
The applicant explained that the detection of bacteremia is of particular concern for Medicare beneficiaries, given that the mean age for United States patients afflicted with sepsis in 2014 was 66.5, with sepsis present in 35 percent of all United States hospitalizations that resulted in death.\(^{571}\)

With regard to the newness criterion, the Steripath® Micro™ ISDD® is a Class II medical device that received 510(k) clearance from the FDA on October 8, 2020. The 510(k) clearance was based on substantial equivalence to an earlier version of the device, Steripath® Gen2, which received 510(k) clearance on February 28, 2020. According to the applicant, the Steripath® ISDD® product portfolio, including the Steripath® Micro™ ISDD®, is the only FDA 510(k)-cleared family of devices indicated to reduce blood culture contamination.\(^{572}\)

According to the applicant, a supplemental Special 510(k) submission and clearance is anticipated for an additional configuration of the Steripath® Micro™ ISDD® device that incorporates a butterfly safety venipuncture needle.

According to the applicant, there are currently no ICD–10–PCS procedure codes to distinctly identify the use of the Steripath® Micro™ ISDD®. The applicant submitted a request for a new ICD–10–PCS procedure code for implementation on October 1, 2021. As discussed above, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

According to the applicant, diversion techniques use the same basic principle to reduce blood culture contamination by sequestering blood most likely to contain dislodged skin fragments and/or flora. With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, the applicant discussed current/alternative treatments to avoid blood contamination, but states that manual diversion, passive diversion, and the Steripath® Gen2 device are not comparable alternatives to Steripath® Micro™.

According to the applicant, manual diversion, which involves the phlebotomist or other medical professional first collecting blood into a waste tube and then manually switching to a sample collection tube, is not a replacement for Steripath® Micro™ ISDD® because manual diversion inherently entails additional opportunities for human error through touch contamination and process variation, without the ability to manage and ensure healthcare worker compliance. The applicant further explained that manual diversion techniques introduce, at a minimum, one additional surface (waste tube top), which must either be sterilized (or carefully handled if pre-packaged sterile) to avoid cross contamination through the inoculation needle. The applicant noted that if the inoculation needle is contaminated in this manner, both blood culture bottles can become contaminated, which can be interpreted (inaccurately) as a true positive through laboratory testing. The applicant explained that Steripath® Micro™ ISDD® is a closed system to prevent opportunities for touch contamination beyond conventional methods of blood culture sample acquisition. The applicant further explained that since Steripath® Micro™ ISDD® is a pre-assembled and packaged sterile kit that does not require manual connections, it avoids touch-point contamination and prevents the need for additional time, focus, and manual diversion procedural compliance from the operator.

The applicant stated that the Kurin product, a competitor diversion device that uses passive diversion (or relying on the patients blood pressure), is not a comparable alternative to Steripath® Micro™ ISDD® as it is not FDA-cleared to reduce blood-culture contamination. The applicant claimed that passive diversion, because of its limitations, is integrated into the Kurin product to redirect 0.15 mL of blood. The applicant stated that passive devices are susceptible to bypassing diversion when the culture bottle is inoculated before diversion is established, and that this limitation is not present within the Steripath® Micro™ ISDD® architecture. The applicant asserted that the Steripath® Micro™ ISDD® uses a novel syringe-driven (or blood culture bottle-driven) negative pressure to flip an internal bladder which, in turn, creates gentle negative pressure to divert and sequester the initial 0.6 to 0.9 mL of blood.

The applicant further stated that the Steripath® Gen2 ISDD® is not a comparable product to Steripath® Micro™ ISDD®, as it uses greater negative pressure to divert an initial 1.5–2.0 mL of blood for the adult patient population. According to the applicant, the Steripath® Micro™ ISDD® platform leverages ISDD® technology but is smaller, easier-to-use, and employs a novel proprietary diversion bladder technology to address patients who are hypotensive and hypovolemic, have difficult intravenous access, or are small in stature with lower blood volume.

Specifically, the applicant explained that the Steripath® Micro™ ISDD® uses syringe-driven (or blood culture bottle-driven) negative pressure to flip an internal bladder which in turn creates gentle negative pressure to effectively and consistently divert and sequester the initial 0.6 to 0.9 mL of blood, the portion known to most likely contain contaminants, with this patient population. The applicant asserts this differentiates the Steripath® Micro™ from the Steripath® Gen2. The applicant further explained that once diversion is complete, the user presses a button to isolate the diverted blood and, automatically, a separate independent blood flow pathway opens to collect the blood specimen into the syringe (or blood culture bottle) for culture.

With respect to the second criterion, whether the technology is assigned to the same or a different MS–DRG, the applicant did not indicate whether the Steripath® Micro™ ISDD® would be assigned to the same MS–DRGs as cases representing patients who receive diagnostic information from competing technologies or traditional blood collection methods. With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant stated that the Steripath® Micro™ ISDD® was fundamentally designed to address a specific and broader patient population than any other technology that is currently available and FDA 510(k) cleared to prevent blood culture contamination. The applicant explained that in a certain subset of ‘hard-stick’ (low blood volume, hypovolemic and hypotensive) patients, blood culture using passive diversion or the Steripath® Gen2 ISDD® is not possible. According to the applicant, Steripath® Micro™ is the first ISDD designed specifically to address the unmet needs of the low blood volume, hypovolemic and hypotensive, ‘hard-stick’ patient populations (many requiring integrated sterile syringe collection) that is FDA 510(k) cleared indicated to reduce blood culture contamination.

We have the following concerns regarding whether the technology meets

---


the substantial similarity criteria and whether it should be considered new. Although we understand that the Steripath® Micro™ ISDD® version may divert less blood volume and utilize less negative pressure than the Steripath® Gen2 ISDD®, we note that both devices utilize negative pressure and, according to the applicant, leveraged Magnolia Medical Technologies’ foundational ISDD® technology, and it is unclear whether this represents a new mechanism of action. We further note that the applicant also appears to consider the devices as similar, as they exclusively rely on studies conducted using the Steripath® Gen2 ISDD® to demonstrate substantial clinical improvement. We therefore believe that the newness date for Steripath® Micro™ ISDD® would begin on February 28, 2020, the date on which the predicate device received 510(k) clearance.

We also note that the applicant claimed that the Steripath® ISDD® product portfolio, including the Steripath® Micro™ ISDD®, is the only FDA 510(k)-cleared family of devices indicated to reduce blood culture contamination and we are inviting public comment on whether there are other FDA-cleared products designed to reduce blood culture contamination.

We are inviting public comments on whether the Steripath® Micro™ ISDD® is substantially similar to other technologies and whether the Steripath® Micro™ ISDD® meets the newness criterion.

With regard to the cost criterion, the applicant searched the FY 2019 MedPAR FR claims data file with the FY 2019 Final Rule IPPS Impact File to identify potential cases representing patients who may be eligible for treatment using Steripath® Micro™ ISDD®.

The applicant used 37 Infection ICD–10–CM Diagnosis Codes and 15 Sepsis ICD–10–CM Diagnosis codes to identify patients who could potentially benefit from the Steripath® Micro™ ISDD® during an inpatient stay. These ICD–10–CM codes are provided in the following table:

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A04.0</td>
<td>Enteropathogenic Escherichia coli infection</td>
</tr>
<tr>
<td>A04.1</td>
<td>Enterotoxigenic Escherichia coli infection</td>
</tr>
<tr>
<td>A04.2</td>
<td>Enteroinvasive Escherichia coli infection</td>
</tr>
<tr>
<td>A04.3</td>
<td>Enterohemorrhagic Escherichia coli infection</td>
</tr>
<tr>
<td>A04.4</td>
<td>Other intestinal Escherichia coli infections</td>
</tr>
<tr>
<td>A24.9</td>
<td>Meliodiosis, unspecified</td>
</tr>
<tr>
<td>A49.01</td>
<td>Methicillin susceptible Staphylococcus aureus infection, unspecified site</td>
</tr>
<tr>
<td>A49.02</td>
<td>Methicillin resistant Staphylococcus aureus infection, unspecified site</td>
</tr>
<tr>
<td>A49.9</td>
<td>Bacterial infection, unspecified</td>
</tr>
<tr>
<td>B95.2</td>
<td>Enterococcus as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B95.61</td>
<td>Methicillin susceptible Staphylococcus aureus infection as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B95.62</td>
<td>Methicillin resistant Staphylococcus aureus infection as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B95.7</td>
<td>Other staphylococcus as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B96.1</td>
<td>Klebsiella pneumoniae [K. pneumoniae] as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B96.20</td>
<td>Unspecified Escherichia coli [E. coli] as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B96.21</td>
<td>Shiga toxin-producing Escherichia coli [E. coli] (STEC) O157 as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B96.22</td>
<td>Other specified Shiga toxin-producing Escherichia coli [E. coli] (STEC) as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B96.29</td>
<td>Other Escherichia coli [E. coli] as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>B96.5</td>
<td>Pseudomonas (aeruginosa) (mallei) (pseudomallei) as the cause of diseases classified elsewhere</td>
</tr>
<tr>
<td>J15.0</td>
<td>Pneumonia due to Klebsiella pneumoniae</td>
</tr>
<tr>
<td>J15.1</td>
<td>Pneumonia due to Pseudomonas</td>
</tr>
<tr>
<td>J15.20</td>
<td>Pneumonia due to staphylococcus, unspecified</td>
</tr>
<tr>
<td>J15.211</td>
<td>Pneumonia due to Methicillin susceptible Staphylococcus aureus</td>
</tr>
<tr>
<td>J15.212</td>
<td>Pneumonia due to Methicillin resistant Staphylococcus aureus</td>
</tr>
<tr>
<td>J15.5</td>
<td>Pneumonia due to Escherichia coli</td>
</tr>
<tr>
<td>J15.6</td>
<td>Pneumonia due to other Gram-negative bacteria</td>
</tr>
<tr>
<td>J95.85</td>
<td>Ventilator associated pneumonia</td>
</tr>
<tr>
<td>K55.30</td>
<td>Necrotizing enterocolitis, unspecified</td>
</tr>
<tr>
<td>K55.31</td>
<td>Stage 1 necrotizing enterocolitis</td>
</tr>
<tr>
<td>K55.32</td>
<td>Stage 2 necrotizing enterocolitis</td>
</tr>
<tr>
<td>K55.33</td>
<td>Stage 3 necrotizing enterocolitis</td>
</tr>
<tr>
<td>N39.0</td>
<td>Urinary tract infection, site not specified</td>
</tr>
<tr>
<td>R78.81</td>
<td>Bacteremia</td>
</tr>
<tr>
<td>T81.4XXA</td>
<td>Infection following a procedure, initial encounter</td>
</tr>
<tr>
<td>Z22.321</td>
<td>Carrier or suspected carrier of Methicillin susceptible Staphylococcus aureus</td>
</tr>
<tr>
<td>Z22.322</td>
<td>Carrier or suspected carrier of Methicillin resistant Staphylococcus aureus</td>
</tr>
<tr>
<td>Z86.14</td>
<td>Personal history of Methicillin resistant Staphylococcus aureus infection</td>
</tr>
</tbody>
</table>

in highly complex hospitalized patients. J Clin difficult venous access and associated risk factors
management of difficult venous access. BMC
use of the Steripath these cases are not likely to benefit from
infections and renal failure because
include in the cost analysis.

diagnosis code positions on the claim to
codes listed above in one of the first two
claims that included one of the ICD–10
codes: 295,790 claims
determined an average unstandardized
cc), and 177 (Respiratory infections &
sepsis w mcc). The applicant
resulted in 295,790 claims
mapping to six MS–DRGs: 871
(Septicemia or severe sepsis w/o mv >96 hours w mcc), 872 (Septicemia or severe sepsis w/o mv >96 hours w/o mcc), 853 (Infectious & parasitic diseases w o.r. procedure w mcc), 870 (Septicemia or severe sepsis w/o mv >96 hours or peripheral extracorporeal membrane oxygenation (ecmo)), 854 (Infectious & parasitic diseases w o.r. procedure w cc), and 177 (Respiratory infections & inflammations w mcc). The applicant determined an average unstandardized case weighted charge per case of $69,973.
The applicant stated that studies show blood culture contamination (BCC) increases length of stay (LOS) and leads to unnecessary antimicrobial therapy and/or hospital-acquired conditions. The applicant stated that a retrospective analysis involving hospitalized patients with sepsicaemia-compatible symptoms found that avoiding BCC would decrease costs by $6,463, including $4,818 in savings for
inpatient care. 57% of savings were attributed to reduced LOS and 26 percent to reduced antibiotic use.576


The applicant stated that to account for these savings, they removed $2,500 by inflating costs to charges using the national average cost-to-charge ratio (CCR) for routine days and $2,300 by inflating costs to charges using the pharmacy national average CCR.

Because the previous study cited did not describe where non-LOS related
savings accrued, the applicant assumed that the savings arose from
reduced drug use and therefore the pharmacy national average CCR was used.

Because, according to the applicant, savings accrue in around 3% of cases where the Steripath® MicroTM ISDD® is used, the applicant applied three percent of the savings described above
to every case in the sample population. The applicant stated that removing the
$4,800 in cost savings from 3 percent of the cases is mathematically the same as
removing 3 percent of the cost savings from all cases. The applicant then
standardized the charges using the FY 2019 Final Rule Impact File. Next, the
applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTC
PPS final rule to calculate outlier threshold charges (1.33218). To calculate
the charges for the technology, the applicant used the national average
CCR for the Supplies and Equipment cost center of 0.297 from the FY 2019 Final Rule Impact File. Next, the
applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTC
PPS final rule to calculate outlier

573 Armenteros-Yeguas V., et al. Prevalence of
difficult venous access and associated risk factors
DIVA Scale: A Clinical Predictive Scale to Identify
Difficult Intravenous Access in Adult Patients
575 Geisler, BP, et al. Model to evaluate the impact of hospital-based interventions targeting false-
weighted standardized charge per case of $76,796, which exceeded the average case-weighted threshold amount of $69,973 by $6,824. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

Based on the information provided by the applicant, we note the following concerns with regard to the cost criterion. In its analysis, the applicant stated it randomly selected 33% of claims that included one of the ICD-10 codes listed above in one of the first two diagnosis code positions on the claim to include in the cost analysis. Implicit in this decision to randomly select a subsample is the belief that Steripath® Micro™ ISDD® cases are randomly distributed across all cases identified. If performed properly, the intent of random sampling from a population is to identify a smaller group of cases which remains representative or similar to the greater population. An added effect of proper random sampling is that the sample often has less variance than the population from which it was drawn. We are therefore concerned that random sampling may be inappropriate in this situation if the potential cases are not similarly randomly distributed.

Furthermore, if it is true that a subset of cases were more representative of cases eligible for use of the Steripath® Micro™ ISDD®, it may be more likely that those cases will be distributed based on certain characteristics, not randomly distributed. We are seeking public comment on whether the random sample used by the applicant would appropriately identify the cases eligible for the use of Steripath.

In its cost analysis, the applicant stated that, in order to account for savings from the use of Steripath® Micro™ ISDD®, it removed $2,500 by inflating costs to charges using the national average cost-to-charge ratio (CCR) for routine days and $2,300 by inflating costs to charges using the pharmacy national average CCR. From a methodological standpoint, we are not certain that the data from which savings were calculated are generalizable to the broader Medicare population’s experience if Steripath® Micro™ Blood Collection System is used. Specifically, we are not certain that the patient population and the resulting conclusions from the aforementioned study adequately generalize to the Medicare population.

Lastly, the applicant stated that because savings accrue in around three percent of cases where the Steripath® Micro™ ISDD® is used, the applicant applied three percent of the savings described previously to every case in its sample population. We are unclear whether the three percent of cases which experienced savings in the one study provided by the applicant is adequately representative of the Medicare population. We are not certain that three percent of a sample experiencing some level of savings is the same as all cases experiencing three percent savings. Therefore, we are not certain that it is appropriate to apply three percent of savings across all cases in the applicant’s cost analysis. As with the reduction in charges discussed previously, while the applicant’s approach provides a more conservative estimate for purposes of the cost criterion, we question whether it accurately reflects the experiences of providers and Medicare beneficiaries.

We invite public comment on whether Steripath® Micro™ ISDD® meets the cost criterion. With respect to the substantial clinical improvement criterion, the applicant asserted that the Steripath® Micro™ ISDD® represents a substantial clinical improvement over existing technologies. The applicant stated that data from studies show that Steripath Micro™ ISDD® offers the ability to reduce blood collection contamination with skin flora and asserted that it improves clinical outcomes relative to services or technologies previously available as demonstrated by reducing clinically significant adverse events (that is, a decrease in inappropriate antibiotic use and a decrease in inappropriate hospitalizations).

The applicant submitted with its application 17 Steripath® ISDD® technology-specific studies, including 5 peer-reviewed studies published in scientific journals, that it stated support the contamination rate reduction with Steripath® Gen2 ISDD® of 73.6 percent to 100 percent, with resulting sustained contamination rates of 0.97 percent to 0.0 percent, which the applicant stated is below the 3.0 percent gold standard benchmark rate for blood culture contamination. The applicant submitted a retrospective controlled study by Bell M, et al. that showed that investigators seeking to lower the blood culture contamination rate at four different Lee Health (a healthcare system in Florida) emergency departments found that Steripath® Gen2 ISDD® implementation reduced their blood culture contamination rate by 83.0 percent when compared to conventional methods of sample acquisition, (that is without diversion). The Lee Health emergency departments compared contamination rates obtained using Steripath® Gen2 ISDD® device as the standard of care from May 2016 through November 2016 to conventional methods which were collected from October 2015 through November 2016. The applicant stated that these findings support their claim that Steripath® ISDD® reduces the risk of blood culture contamination.

The applicant submitted the Bauman, K, poster, where investigators seeking to lower the blood culture contamination rate at the Inova Fairfax Medical Center found that Steripath® Gen2 implementation reduced their blood culture contamination rate by 81.5% when compared to conventional methods of sample acquisition. The trial use of Steripath® Gen2 lasted for one year, and results were compared to conventional methods for the year preceding the trial. According to the applicant, findings support the claim that Steripath® reduces the risk of blood culture contamination, while historical patient data from this hospital supported the claim that the lower contamination rate Steripath® enables will translate into a reduced patient length of stay of one day per avoided false positive event.

The applicant submitted the Blakeney J, et al. poster, a prospective controlled study comparing the use of Steripath® ISDD® to standard collection methods and the effect on blood culture contamination rates. Over a 16-week period, participants’ blood was collected using both the Steripath® and conventional methods, with each being recorded. Per the applicant, outcomes showed that Steripath® ISDD® implementation reduced Beebe Healthcare’s blood culture contamination rate by 74.6 percent when compared to conventional methods of sample acquisition. The applicant stated that the findings support the claim that Steripath® ISDD® reduces the risk of blood culture contamination.

---


The applicant submitted the Church K, et al.\textsuperscript{582} prospective controlled study, which showed that investigators at the Medical University of South Carolina emergency department found that Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} implementation reduced their blood culture contamination rate by 73.6 percent when compared to conventional methods of sample acquisition. In this 20-month study, nurses were given autonomy to decide if a patient would be best served by the Steripath\textsuperscript{®} Gen2 device or conventional methods, with choices being recorded. The uptake rate of the Steripath\textsuperscript{®} Gen2 device was 66%, with exclusions being uncooperative patients and difficult to stick patients. The applicant submitted the Gauld L, et al.\textsuperscript{583} study, an eight month long prospective controlled study which showed that investigators seeking to lower the blood culture contamination rate at the Medical University of South Carolina emergency department found that Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} implementation reduced their blood culture contamination rate by 86.3 percent when compared to conventional methods of sample acquisition. The applicant submitted a poster, Lanteri C, et al.,\textsuperscript{584} with preliminary data and a paper, Huss, J, et al.,\textsuperscript{585} that includes all of the poster data with additional data gathered. This prospective controlled study at Brooke Army Medical Center showed that Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} implementation reduced blood culture contamination rate by 91.7 percent from September 2015 through January 2016, and 89.7 percent from September 2015 through March 2016 when compared to conventional methods of sample acquisition. The applicant submitted the Rupp M, et al.\textsuperscript{586} paper, which is a 12-month, single center, prospective, controlled, open label trial. Investigators at the University of Nebraska Medical Center emergency department seeking to gauge the efficacy of the Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} without confounding variables conducted a matched-set controlled study and found that Steripath\textsuperscript{®} implementation reduced their blood culture contamination rate by 87.6 percent when compared to conventional methods of sample acquisition. The applicant submitted the Stoneycpher K, et al.\textsuperscript{587} 8 week pilot study, which showed that investigators at the Michael E. DeBakey VA Medical Center emergency department found that Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} implementation reduced their blood culture contamination rate by 83.1 percent when compared to conventional methods of sample acquisition. The applicant submitted the Tompkins L, et al.\textsuperscript{588} abstract, which showed that investigators seeking to lower the blood culture contamination rate at Stanford Health Care found that Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} implementation reduced their blood culture contamination rate by 100 percent over a 4-month period when compared to conventional methods of sample acquisition. According to the applicant, full results are anticipated but not presently published. The applicant submitted the Tongma C, et al.\textsuperscript{589} prospective controlled study, which showed that investigators seeking to lower the blood culture contamination rate at Rush University Medical Center emergency department found that Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} implementation reduced their blood culture contamination rate by 87.0 percent when compared to conventional methods of sample acquisition. The 6-month study was split into an initial 3 months of usual care and a subsequent 3 months using the Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®}. The applicant provided the following studies to support secondary claims of substantial clinical improvement: The applicant submitted the Buchta C, et al.\textsuperscript{590} animal (pig) model study, in which investigators hypothesized that despite proper skin antiseptic use, contamination may occur because flora from deeper regions (such as pores) are not effectively eliminated. The applicant stated that results confirmed the hypothesis that cannula may cause tissue fragments to be punched in the process of blood sample acquisition, supporting the mechanism by which Steripath\textsuperscript{®} Gen2 ISDD\textsuperscript{®} primarily addresses blood culture contamination (that is, diversion). The applicant submitted the Rhee C, et al.\textsuperscript{591} retrospective cohort study, which featured adult patients admitted to 409 academic, community, and Federal hospitals from 2009–2014. Investigators sought to estimate national sepsis incidence and trends, concluding that sepsis was present in 6 percent of adult hospitalizations and 35 percent of hospitalizations resulting in death. According to the applicant, this helps put into context the role of Steripath\textsuperscript{®} ISDD\textsuperscript{®} in improving the efficacy of the primary tool used to guide therapy for bloodstream infections: blood culture. The applicant submitted the Zimmerman F, et al.\textsuperscript{592} paper (a randomized clinical trial) and the Binkhamis K and Forward K.\textsuperscript{593} paper (a prospective controlled study), which demonstrated that manual diversion reduced blood culture contamination rate by 60.0 percent and 28.2 percent, respectively, when compared to conventional methods of sample acquisition. The applicant also submitted the Patton R and Schmitt T.\textsuperscript{594} prospective controlled study, which showed that investigators seeking to trial manual diversion of 1 mL to lower the blood culture contamination rate at the Northwest Hospital and Medical Center Emergency Department found that manual diversion reduced their blood culture contamination rate by 43.8 percent when compared to conventional methods of sample acquisition. The applicant further stated that the findings additionally support the volume of diversion utilized by Steripath\textsuperscript{®} Micro\textsuperscript{™} ISDD\textsuperscript{®}. The applicant also submitted the Rhee C, et al. Incidence and trends of sepsis in US hospitals using clinical vs claims data, 2009–2014. JAMA 318.13 (2017): 1241–1249.


The applicant also submitted the Syed S, et al.595 preintervention and postintervention study, which showed that investigators at the AMITA Health Saint Francis Hospital Emergency Department found that manual diversion reduced their blood culture contamination rate by 30.9 percent when compared to conventional methods of sample acquisition. We note that these studies discussed manual diversion and not Steripath® Micro™ or other diversion devices.

The applicant submitted the Alahmadi Y, et al.596 study, which is a retrospective case-control study that showed that false positive blood cultures were associated with an average 5.4 day increase in patient length of stay and average increases of more than $4,000 in total charges to a healthcare system. The applicant also submitted the Bates D, et al.597 which is a prospective controlled study that showed false positive blood cultures were associated with an average of a 4.5 day increase in patient length of stay and average increases of more than $4,000 in total charges to a healthcare system. According to the applicant, investigators also noted that contaminants were independently correlated with a 39 percent increase in antibiotic charges.

The applicant provided a study to support its claim that the Steripath® ISDD® reduces the average length of stay for patients requiring blood culture, thereby lowering their risk of hospital-acquired infections (HAI) and conditions (HAC). The applicant explained that the Skoglund E, et al.598 decision tree health care economic model paper showed that investigators found that overall, each false positive blood culture was on average associated with 2 day increases in patient length of stay and an average increase of more than $4,500 in total charges to a healthcare system. According to the applicant, Steripath® ISDD® implementation may reduce costs associated with contamination and reduce the average patient length of stay.

The applicant provided four studies to support its claim that Steripath® ISDD® reduces the inappropriate administration of vancomycin and other antibiotics to drive antibiotic stewardship. The applicant submitted the Chang D, et al.599 poster, a retrospective, nonrandomized study that recorded the San Antonio Military Medical Center Emergency Department’s days of therapy (DOT) of vancomycin for 18 months as a baseline. Then, the hospital implemented a new blood culture test, and recorded the DOT of vancomycin for 7 months. Subsequently, the hospital implemented the Steripath® Gen2 device and recorded the DOT of vancomycin for an additional 14 months to complete the 39-month trial. Investigators found that Steripath® Gen2 ISDD® implementation reduced vancomycin days of therapy by 14.4 days per 1,000 patient days when compared to conventional methods of sample acquisition. According to the applicant, findings from the study, as reported by the study authors, support the claim that Steripath® ISDD® reduces the unnecessary administration of antibiotics by reducing the rate of false positive blood cultures.

The applicant also submitted the Souvenir D, et al.600 cohort study of 3,276 cultures of blood from 1,433 patients in which investigators found that physicians treated almost half of all patients receiving a false positive blood culture result with antibiotics, with vancomycin misuse occurring in 34 percent of patients. The applicant also submitted the Heijden Y, et al.601 study in which investigators found that physicians treated 27% of patients receiving a false positive blood culture result with antibiotics unnecessarily, with the median antibiotic regimen being 7 days in length. The applicant also submitted the Bates study,602 as discussed previously, which showed contaminants were independently correlated with a 39 percent increase in antibiotic charges.

According to the applicant, as Steripath® ISDD® is designed to reduce the incidence of blood culture contamination, Steripath® ISDD® implementation may reduce unnecessary antibiotic administration while supporting antimicrobial stewardship. We have the following concerns regarding the substantial clinical improvement criterion. We note that much of the evidence submitted by the applicant to support that Steripath® Micro™ represents a substantial clinical improvement over existing technologies speaks to the overall clinical value of reducing blood contamination, or the benefit of manual diversion over no diversion, but does not directly link the Steripath® Micro™ to improved clinical endpoints. We note that the applicant stated that all of the studies provided that address the specific technology used to reduce blood contamination through diversion of the initial sample during blood collection utilized the Steripath® Gen2 ISDD®, not the Steripath® Micro™ ISDD® and we therefore question whether we have sufficient information to assess the clinical impact of Steripath® Micro™. Furthermore, the applicant did not present any clinical data to compare Steripath® Micro™ ISDD® to the Steripath® Gen2 ISDD®.

We also note that comparative studies between Steripath® Micro™ and either manual diversion or competitor devices were not provided, and we question whether the standard of care used in the studies (that is, no diversion) is an appropriate comparator against which to test this technology. Additionally, we note that the applicant did not provide any clinical data demonstrating that the Steripath® Micro™ directly reduced length of stay, C. difficile infections, or other secondary results of antibiotic overuse. We are interested in any clinical data that directly links the Steripath® Micro™ to these outcomes.

Finally, we note that the claim of gentle negative pressure in support of the applicant’s assertion that the technology would provide a treatment option for a new patient population was not addressed by any of the studies submitted. In addition, no data was supplied that quantified appropriate levels of negative pressure for either the
promotes regenerative healing and is replaced by the patient’s own cells, eliminating the need for autografting to attain definitive closure of treated wounds.

The applicant explained that a thermal burn is the most common type of burn injury and accounts for approximately 86 percent of burn cases. The applicant noted that burns are classified according to the depth of tissue injury as superficial (first-degree burns), partial-thickness (superficial and deep partial-thickness; second-degree burns), full-thickness (FT, third-degree burns), and fourth-degree burns (burns that have injured deeper structures such as muscle, fascia, and bone). The applicant also noted the percentage of total body surface area (TBSA) determines burn severity and directly correlates with mortality.

The applicant stated that in the U.S., approximately 500,000 burn injuries receive emergency medical treatment each year, leading to 40,000 burn injury hospitalizations at hospital burn centers. The applicant noted that children and the elderly represent especially vulnerable populations at increased risk for death due to the skin loss and its complications. The applicant explained that in 2013, the rate of burn-related hospital stays was highest for infants aged younger than 1 year (29.6 per 100,000 population) and older adults (20.7 per 100,000 population for adults aged 65–84 and 26.3 per 100,000 population for adults aged 85 and older). The applicant also stated that unintentional fire or burn injuries was the 8th leading cause of death in those 65 years or older.

The applicant explained that today, 96.7 percent of burn patients treated in burn centers will survive. The applicant noted that many of those survivors will sustain serious scarring and life-long physical disabilities. The applicant stated that burn injuries pose a significant burden to patients; they can have a considerably negative effect on the patient’s health-related quality of life (HRQoL), which was estimated to be reduced by 30 percent at the time of injury and by 9 percent in the long term. The applicant explained that although most functional domains affected by burn injuries recover over time, HRQoL scores pertaining to physical and emotional role participation, anxiety, depression, pain, work, and heat sensitivity remained low at 12 months after the injury.


problems of infection and rejection when using allografts or xenografts.\textsuperscript{620} The applicant explained that autografting involves surgical harvesting of healthy tissue from the patient (donor site) and transplantation of this skin to an injured site on the same patient.\textsuperscript{621} The applicant noted that autografts can be harvested as split thickness or full thickness. According to the applicant, split-thickness skin grafts (STSGs), also called partial-thickness grafts, transfer a portion of the donor site skin, including the epidermis and some of the underlying dermis. The applicant also explained that this allows the donor site to heal from the epidermal elements left behind. The applicant also stated that full-thickness skin grafts (FTSGs) harvest the entire layer of skin as the graft; no dermal or epidermal elements remain at the donor site, which must be closed by local advancement of the adjoining skin or by a secondary local flap. The applicant stated that the process of revascularization takes longer for an FTSG than for an STSG because of the increased thickness of the tissue.\textsuperscript{622} The applicant explained that early excision and skin grafting reduce the chance of wound infections and systemic sepsis, and have become the standard of care.\textsuperscript{623,624,625} The applicant noted that without autografting, an STB that contains some dermal elements usually requires greater than 3 weeks to heal, thereby increasing the risk for infection and other complications that may lead to the development of significant scarring and contracture.\textsuperscript{626,627,628} The applicant stated that while STBs require surgical debridement and grafting, superficial first-degree burns do not;\textsuperscript{629} however, in the acute phase of the burn injury, the clinical presentation of the severely burned patient usually involves a range of burn depths from a superficial burn to a FT burn.\textsuperscript{630} The applicant explained that although autografting is effective in closing wounds and has been a standard treatment for decades, it has limitations. The applicant stated that donor sites are often associated with several complications, including excessive pain, pruritus, infection, dyschromia, hypertrophic scarring, delayed healing, and the potential for conversion to a FT wound.\textsuperscript{631} The applicant also noted that donor-site pain is typically more painful than that in the treatment (burned) site and may become chronic.\textsuperscript{632,633} In patients with burns of 50–60 percent TBSA, autograft is limited by donor-site availability.\textsuperscript{634} The applicant explained that donor sites may be re-harvested if they heal in time without infection; however, this practice can lead to prolonged hospitalization and decreased quality of the skin from re-harvested sites. The applicant stated that after patients undergo skin grafting, in the long term, both the grafted wound site and the donor site require continuous physical and rehabilitative therapy to maintain the range of movement, minimize scar and contracture development, and maximize functional ability.\textsuperscript{635} The applicant noted that autografting is especially undesireable in vulnerable patient populations, such as the elderly. The applicant stated that the healing of donor sites may be delayed or even lacking in elderly patients or whose wounds-healing capabilities are pathophysiological bases of burn wound progression. J Burn Care Res. 2010; 31(6):849–873.\textsuperscript{636} Bittner EA, Shank E, Woodson L, Martyn JA. Acute and perioperative care of the burn-injured patient. Anesthesiology. 2015;122(2):448–464.\textsuperscript{637} Girard D, Laverdet B, Buheè V, et al. Biotechnological Management of Skin Burn Injuries: Challenges and Perspectives in Wound Healing and Sensory Recovery. Tissue Eng Part B Rev. 2017;23(1):59–82.\textsuperscript{638} Leon-Villalopos J. Skin autografting. UpToDate. https://www.uptodate.com/contents/skin-autografting. Literature review current through September 2020. Accessed October 1, 2020. \textsuperscript{639} Bittner EA, Shank E, Woodson L, Martyn JA. Acute and perioperative care of the burn-injured patient. Anesthesiology. 2015;122(2):448–464.\textsuperscript{640} Girard D, Laverdet B, Buheè V, et al. Biotechnological Management of Skin Burn Injuries: Challenges and Perspectives in Wound Healing and Sensory Recovery. Tissue Eng Part B Rev. 2017;23(1):59–82.\textsuperscript{641} Id.\textsuperscript{642} Deitch EA, Wheelahan TM, Rose MP, Clothier J, Cotter J. Hypertrophic burn scars: analysis of variables. J Trauma. 1983;23(10):495–496.\textsuperscript{643} Kagan RJ, Peck MD, Ahrenholz DH, et al. Surgical management of the burn wound and use of skin substitutes: an expert panel white paper. J Burn Care Res. 2013; 34(2):60–79.\textsuperscript{644} Shupp JW, Nasabzadeh TJ, Roswell DS, Jordan MH, Fidler P, Jeng JC. A review of the local
The applicant explained that skin substitutes are a heterogeneous group of biologic, synthetic, or biosynthetic materials that can provide temporary or permanent coverage of open skin wounds. The applicant stated that the aim of skin substitutes is to replicate the properties of the normal skin and to provide the protective barrier function until definitive closure of the skin. The applicant noted that synthetic skin substitutes need to be removed or undergo biodegradation or resorption so the skin can heal and regenerate. The applicant also stated that biological skin substitutes have an architecture that resembles native skin and may allow the construction of a more natural new dermis.

The applicant explained that skin substitutes are an important adjunct in the management of acute or chronic wounds and can be used to cover defects following burns or other injuries, or for reconstruction, such as for release of extensive severe post-burn contractures. The applicant also stated that Kumar’s 3-category system, as shown in the table that follows, is currently the most frequently used classification system in the field. However, the applicant notes that there is no universally accepted classification system that allows for simple categorization of all the products that are commercially available. The applicant stated that several biologic and biosynthetic materials are currently used as skin substitutes to temporarily cover wounds. The applicant provided the following table which, according to the applicant, classifies skin substitutes according to Kumar (2008) and summarizes the applicant’s assertions regarding existing skin substitute products.

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
<th>Sub-Category</th>
<th>Subdivision</th>
<th>Product Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Temporary, impervious dressing material with mechanical traits of the epidermis; lack keratinocytes</td>
<td>Single Layered Materials</td>
<td>Naturally occurring membrane or cover as biological dressing substitute</td>
<td>Biomembrane® Biocompatible vegetal membranes derived from the Hevea brasiliensis rubber tree</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Single-layer synthetic skin dressing material substitute</td>
<td>TegadermTM, OpsiteTM, DermafilmTM, Nexfill®</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bi-layered tissue-engineered materials</td>
<td>TransCyte®</td>
</tr>
<tr>
<td>II</td>
<td>Single-layer skin substitutes (epidermal or dermal)</td>
<td>Epidermal substitutes - similar to human epidermis; prone to breakdown; poor healing outcomes</td>
<td>Epice®, EpiDex®, Laserskin®, MySkinTM, BioSeed®, CellSprayTM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal substitutes - composition that includes proteins found in the dermal matrix</td>
<td>Permacol®, Matriderm®, Alloderm®</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Composite skin substitutes that replace both the dermal and epidermal layer</td>
<td>Skin graft (autografts, allografts, and xenografts)</td>
<td>Allograft from cadaver, xenograft from porcine origin</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tissue-engineered skin</td>
<td>Apligraf® (cellular), Integra® (acellular), Biobrane®</td>
<td></td>
</tr>
</tbody>
</table>

The applicant stated that StrataGraft™ skin tissue is a novel BRSC which possesses many of the physical and biological properties of an ideal skin substitute, including both epidermis and dermis with a barrier function comparable to that of intact human skin. The applicant asserted that upon FDA approval, StrataGraft™ skin tissue will be the only skin substitute for treatment of STB classified by the FDA as a biologic (as opposed to autografting).

---

Stated that cell-cell and cell-substratum adhesions confer excellent handling characteristics to StrataGraft™ skin tissue, enabling it to be meshed and secured in place as is routinely done with STSGs. The applicant noted that the dermal layer of StrataGraft™ skin tissue contains NHDF derived from a single healthy tissue donor. The applicant explained that viable cells within StrataGraft™ skin tissue express and secrete a wide variety of peptides, growth factors, and cytokines that are known to promote healing, thereby reducing or eliminating the need for autograft in the management of thermal burns. The applicant also stated that no currently available technology (competitor) for the treatment of STB is characterized by the autologous (endogenous) tissue regeneration of the burned skin. The applicant stated that the StrataGraft™ skin tissue is manufactured through organotypic culture under aseptic conditions in compliance with current Good Manufacturing Practices. The applicant explained that in organotypic culture, NIKS® keratinocytes undergo tissue-appropriate differentiation and stratification to produce a skin tissue that exhibits many of the structural and biological properties of intact human skin. The applicant noted that the epidermal layer of StrataGraft™ skin tissue exhibits typical production and organization of cell-type specific proteins (example, keratin, filaggrin, involucrin, and transglutaminase), development of a normal cornified envelope, and production of lipid-filled granules that are necessary for the generation and maintenance of robust epidermal barrier function similar to that found in vivo.

As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments. With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, according to the applicant, the mechanism of action of StrataGraft™ skin tissue in severe thermal burns is not the same or similar to an existing technology. The applicant states that StrataGraft™ skin tissue will be the first and only FDA-approved biologic for the treatment of STB that reduces or eliminates the need of autograft and for which the mechanism of action is a sustained expression and secretion of growth factors, cytokines, and wound healing factors, which are anticipated to promote regenerative healing and durable wound closure.

The applicant explains that this unique mechanism of action is the reason StrataGraft™ skin tissue reduces or eliminates the need for harvest of donor site tissue. With respect to the second criterion, whether a product would be assigned to the same MS–DRGs as existing technologies, the applicant indicated that the StrataGraft™ skin tissue would be assigned to the same MS–DRGs as cases representing patients who receive standard of care (autograft) or existing technologies used to treat STB. The applicant stated that the MS–DRGs in question do not differentiate between patients with burns of differential severity degree, in different body sites, due to thermal injury or corrosion, or with different percent TBSA involved.

With respect to the third criterion, whether a product would be used to treat the same or similar type of disease and patient population, the applicant asserted that StrataGraft™ will treat the same or similar type of disease but not the same or similar patient population when compared to existing technologies. The applicant claimed that StrataGraft™ skin tissue will treat a burn patient population for whom the current standard of care and/or other available technologies may not be clinically feasible solutions to achieve durable wound closure. The applicant explains that in patients with burns of 50–60 percent of the TBSA, donor-site availability is limited. The applicant also stated that autografting is especially opposed to other available treatments (that are medical devices) that promotes durable wound closure and regenerative healing, thereby reducing or eliminating the need of autologous skin harvesting.

According to the applicant, on June 5, 2020, Mallinckrodt finalized the rolling submission of a Biologics License Application (BLA) to the FDA seeking approval to market StrataGraft™ skin tissue for the treatment of adult patients with STB. Currently, there are no ICD–10–PCS procedure codes to uniquely identify procedures involving Stratagraft™. We note that the applicant submitted a request for approval for a unique ICD–10–PCS code for the use of Stratagraft™ beginning FY 2022.

The applicant explained that StrataGraft™ skin tissue is a viable BRSC that may be applied universally to patients, that is, it is not a patient-specific product. The applicant stated that the active cellular components of StrataGraft™ skin tissue are the viable and metabolically active allogeneic human NIKS® keratinocytes and normal human dermal fibroblasts (NHDF). The applicant noted that StrataGraft™ skin tissue comprises an epidermal layer and a dermal layer. The applicant explained that the epidermal layer of StrataGraft™ skin tissue is composed of differentiated, multilayered, viable epidermal keratinocytes that are adherent through normal hemidesmosomes to a dermal equivalent. The applicant stated that human epidermal keratinocytes used are NIKS® keratinocytes, a continuous and consistent source of well-characterized, non-tumorigenic, long-lived keratinocyte precursors that are derived from a single neonatal human foreskin donor. The applicant asserted that NIKS® keratinocytes have normal steady state of messenger ribonucleic acid (mRNA) and protein expression levels for autocrine regulators and growth factors such as transforming growth factor (TGF)-α, TGF-β, epidermal growth factor, and c-myc, providing further evidence of the normal function of these cells. The applicant also explained that NIKS® keratinocytes produce normal adhesion proteins (example, integrins and cadherins) that permit tight adhesion to each other and the dermal equivalent.


Ibid.

Ibid.
undesirable in vulnerable patient populations, such as the elderly; healing of donor sites may be delayed or even lacking in elderly patients or patients whose wound-healing capabilities are compromised. The applicant explained that these patients are disproportionately affected and are at increased risk for death due to the skin loss and its complications. The applicant also states that the label for Stratagraft skin tissue will not be reserved for a patient population diagnosed with STB for whom standard-of-care treatment is not feasible or clinically desirable. The applicant asserts that this does not imply that Stratagraft skin tissue will not offer a treatment option to a new patient population.

With respect to the first criterion, we note that there may be other biologic dressings that use some combination of keratinocytes, collagen, glycosaminoglycans (GAGs), cytokines, chemokines, and/or other growth factors in either a single, double, or triple layer configuration. While Stratagraft may have a unique combination of these features, we are interested in further information on whether there are any dressings with a regenerative mechanism of action that may be approved for burns.

With respect to the third criterion, Stratagraft may treat the same or similar patient population as the standard of care or existing technologies to treat STB. While we agree that in patients with burns of 50–60 percent of the TBSA, donor-site availability is more limited, we observe that neither of the two pivotal studies included patients with burns of 50 percent or greater of the TBSA. We are unclear whether this suggests Stratagraft is intended for treatment of patients with burns of less than 50 percent TBSA. We also question whether vulnerable patients, such as the elderly, are a new population as they are currently treated using standard of care or other technologies.

We are inviting public comments on whether Stratagraft is substantially similar to other technologies and whether Stratagraft meets the newness criterion.

With regard to the cost criterion, the applicant stated that Stratagraft skin tissue is seeking FDA approval for the proposed indication of treatment of adult patients with STBs that contain intact dermal elements and require surgical intervention. In order to identify the range of MS–DRGs that eligible patients may map to, the applicant conducted a claims search for cases that include ICD–10–CM codes for thermal burns of second, third degree, or those classified according to TSBA to identify cases eligible for use of Stratagraft skin tissue utilization. The applicant identified cases reporting ICD–10–CM codes for diagnoses of second-degree thermal burns, any location (T20.2XXX to T25.2XXX); third-degree thermal burns, any location (T20.3XXX to T25.3XXX); and thermal burns classified according to extent of body surface involved (T31.XX).

The applicant used the FY 2019 MedPAR Hospital LDS with the FY 2022 thresholds, and the FY 2019 IPPS/LTCH Final Rule Impact File and Standardizing File. The applicant’s claim search in the aggregate identified 58,624 cases mapping to 21 MS–DRGs as listed in the following table. Of the total 21 MS–DRGs, only six had case volume greater than or equal to one percent across all cohorts and cumulatively represent 97.54 percent of cases. In cases where MS–DRGs had fewer than 11 discharges, the applicant imputed a minimum value of 11 cases for each MS–DRG.
To demonstrate that the technology meets the cost criterion, the applicant first identified four separate patient cohorts: Cohort (1) Patients with thermal burns of second or third degree in any body area, or thermal burns classified according to TBSA, who received autograft for reasons only related to thermal burns (n=14,774, MS–DRGs=21); Cohort (2) Patients with thermal burns of second or third degree in any body area, or thermal burns classified according to TBSA, who received autograft for thermal burns, with or without other conditions (n=15,744, MS–DRGs=21); and Cohort (4) Patients with thermal burns of second or third degree in any body area, or thermal burns classified according to TBSA, who received autograft for thermal burns, with or without other conditions, and who underwent excisional debridement in the inpatient setting (n=14,666, MS–DRGs=20). The applicant then identified eight analyses for the cost criterion: (1) Calculations for Cohort one (all MS–DRGs); (2) Calculations for cohort two (all MS–DRGs); (3) Calculations for Cohort three (all MS–DRGs); (4) Calculations for cohort four (all MS–DRGs); (5) Calculations for Cohort one (top 4 MS–DRGs by case volume); (6) Calculations for Cohort two (top 4 MS–DRGs by case volume); (7) Calculations for Cohort three (top 4 MS–DRGs by case volume); and (8) Calculations for Cohort 4 (top 4 MS–DRGs by case volume).

The applicant determined an average unstandardized case weighted charge per case of $173,650 for analysis one, $168,282 for analysis two, $178,530 for analysis three, $172,277 for analysis four, $158,851 for analysis five, $155,700 for analysis six, $162,377 for analysis seven, and $158,452 for analysis eight.

The applicant stated that charges for and related to the prior technologies were not removed from the cost analysis.
After calculating the average standardized charge per case for all scenarios, the applicant calculated the standardized charge per case for each MS–DRG. Next, the applicant applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges of 13.2 percent (1.13218). The applicant stated that the price for Stratagraft™ skin tissue has not yet been established and therefore it did not add charges for the technology. Lastly, the applicant calculated the final average inflated case-weighted charge per case and the inflated case-weighted standardized charge per case for each scenario.

The applicant stated that, for analysis one, the final inflated average case-weighted standardized charge per case of $304,347 exceeded the average case-weighted threshold amount of $173,650 by $130,697. For analysis two, the final inflated average case-weighted standardized charge per case of $279,373 exceeded the average case-weighted threshold amount of $168,282 by $111,091. For analysis three, the final inflated average case-weighted standardized charge per case of $332,006 exceeded the average case-weighted threshold amount of $178,530 by $153,477. For analysis four, the final inflated average case-weighted standardized charge per case of $299,228 exceeded the average case-weighted threshold amount of $172,277 by $126,951. For analysis five, the final inflated average case-weighted standardized charge per case of $241,186 exceeded the average case-weighted threshold amount of $158,851 by $82,336. For analysis six, the final inflated average case-weighted standardized charge per case of $229,661 exceeded the average case-weighted threshold amount of $155,700 by $73,961. For analysis seven, the final inflated average case-weighted standardized charge per case of $257,800 exceeded the average case-weighted threshold amount of $162,377 by $95,423. For analysis eight, the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, Stratagraft™ meets the cost criterion.

We invite public comment on whether Stratagraft™ meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that Stratagraft™ skin tissue is a substantial clinical improvement over existing technology for the treatment of adult patients with severe thermal burns with intact dermal elements because it achieves a significant rate of durable wound closure for patients with severe burns while minimizing or eliminating the complications associated with autograft harvest.

According to the applicant, the totality of the circumstances otherwise demonstrates that Stratagraft™ skin tissue, relative to technologies previously available, substantially improves the treatment of STB patients including Medicare beneficiaries. The applicant stated that because the benefits associated with its use are not accompanied by an increased incidence of adverse events as compared to autograft, Stratagraft™ skin tissue is a substantial clinical improvement.

The applicant explained that by significantly reducing or eliminating the harvest of donor sites, patients who receive Stratagraft™ skin tissue are spared short- and long-term sequelae and complications and, to a lesser extent, infection or conversion to a full-thickness wound of the donor sites. The applicant stated that by significantly reducing or eliminating the need for autograft. Stratagraft™ skin tissue is especially relevant for the elderly population where autograft is undesirable; these patients are disproportionately affected and are at increased risk for death due to the skin loss and its complications. The applicant explained that aging and environmental factors can influence the severity of burns in vulnerable skin. The applicant stated that stratified skin also exhibits slower wound healing and is at increased risk of excessive scarring.

According to the applicant, age-related changes in wound healing capacity can include delayed infiltration of immune cells, decreased secretion of growth factors, and altered collagen remodeling. The applicant further explained that use of Stratagraft™ skin tissue can preserve limited donor sites for the treatment of other wounds, such as areas of FT injury and wounds in cosmetically sensitive areas. The applicant noted that it may also reduce the need for repeated harvest of autograft donor sites, potentially reducing the number of surgical procedures and total length of time to wound closure. The applicant explained that burn injury is associated with a high prevalence of posttraumatic stress disorder, ranging between 11 percent and 50 percent across studies, and may also lead to anxiety and depression due to scarring and body image concerns. Lastly, the applicant stated that use of Stratagraft™ skin tissue reduces pain while offering a comparable scar quality to autograft.

The applicant provided two controlled and randomized studies, STRATA2011 and STRATA2016, to support its claims of substantial clinical improvement. The applicant stated that with the exception of subject age (STRATA2011, 18 to 64 years of age; STRATA2016, ≥18 years of age), the inclusion and exclusion criteria for the two studies were similar. According to the applicant, the STRATA2016 study (NCT03005106—Phase 3 trial—71 patients) was 12-month, open-

675 Ibid.
677 Ibid.
681 Ibid.
684 685 686 687 688
study showed that the majority of subjects (59 of 71 subjects, or 83.1 percent, with a 95 percent CI of 74.4 to 91.8) achieved durable wound closure of the StrataGraft™ skin tissue-treated site at Month 3 without the need for autograft harvest and placement.686 The applicant also explained that the STRATA2011 study showed that no StrataGraft™ treatment sites required autografting by Day 28. The applicant noted that at Month 3 in the STRATA2016 study, 93.1 percent of StrataGraft™ treatment sites were assessed as closed. The applicant stated that all StrataGraft™ skin tissue-treated areas evaluated at 6 months and 12 months remained closed. The applicant noted that, when comparing these results to that of autografting, the proportion of wounds that achieved closure was not statistically different.687

To support the claim of reduction in donor site pain using StrataGraft, the applicant stated that the STRATA2011 study showed that the difference between the donor sites preserved for StrataGraft™ skin tissue treatment site failure and autograft donor sites in the average pain intensity through Day 14 based on the Wong-Baker FACES® Pain Rating Scale (FPFRS) was 2.40 ± 1.313 (P < 0.0001), indicating significantly less mean donor-site pain intensity in the reserved StrataGraft™ skin tissue donor sites compared with autograft donor sites.689 The applicant also stated that the STRATA2011 study showed that patients experienced pain at harvested donor sites used for autograft, but minimal pain at unharvested donor sites that had been set aside for potential use with StrataGraft™ skin tissue.690

According to the applicant, the elimination of autografting leads to superior scar quality outcome of the presumptive StrataGraft™ skin tissue donor site (that is, lack of scarring in the donor sites reserved for StrataGraft™ treatment site failure), which is a substantial clinical improvement. The applicant explained that the STRATA2016 study showed that the evaluation of scarring using the Patient and Observer Scar Assessment Scale (POSAS)691 observer total scores demonstrated a significant difference in scar quality between the StrataGraft™ skin tissue and autograft donor sites at Month 3, 10.0 ± 7.92 (P < 0.0001), favoring StrataGraft™ skin tissue.693 The applicant stated that the STRATA2016 study showed scores for every POSAS category were lower for StrataGraft™ skin tissue donor sites than compared with autograft donor sites, indicating they were more like normal skin (that is, the patient’s tissue in the donor sites reserved for StrataGraft™ failure were more like normal skin than tissue present in autograft donor sites when harvested).694 The applicant explained that the STRATA2011 study showed that observer POSAS total scores from the StrataGraft™ tissue treatment site and autograft were not significantly different throughout the study.695 The applicant stated that the STRATA2011 showed that mean overall POSAS opinion scores of observers or patients decreased (that is, became more favorable) from Month 3 through Month 12 after application for both the StrataGraft™ tissue and autograft.696 According to the applicant, although direct comparisons between StrataGraft™ skin tissue and other skin substitutes cannot be drawn, StrataGraft™ skin tissue, relative to device technologies previously available, improves the clinical outcomes of STB patients. The applicant stated that most skin substitutes do not claim to promote wound closure without the need for subsequent autograft because they have not been

and safety of a bioengineered regenerative skin construct in patients with deep partial-thickness thermal burns. J. Burn Care Res. 2020;41(Supplement_1S3–S4.).


687 Holmes JH, Shupp JW, Smith DJ, et al. T5: Preliminary analysis of a phase 3 open-label, controlled, randomized trial evaluating the efficacy and safety of a bioengineered regenerative skin construct in patients with deep partial-thickness thermal burns. J. Burn Care Res. 2020;41(Supplement_1S3–S4.).

improvement criterion for StrataGraft™ skin tissue.

r. Tercartus™ (brexucabtagene autoleucl)

Kite Pharma submitted an application for new technology add-on payment for FY 2022 for Tercartus™ (brexucabtagene autoleucl) (“Tercartus”). Tercartus is a CD19 directed genetically modified autologous T-cell immunotherapy for the treatment of adult patients with relapsed and refractory 207 r/r mantle cell lymphoma (MCL). We note that Kite Pharma previously submitted an application for new technology add-on payments for Tercartus for FY 2021, as summarized in the FY 2021 IPPS/LTCH PPS proposed rule, under the name KTE–X19 (85 FR 32634).

Tercartus is a form of chimeric antigen receptor (CAR) T-cell immunotherapy that modifies the patient’s own T-cells to target and eliminate tumor cells. More specifically, according to the applicant, Tercartus is a unique infusion product consisting of autologous T-cells that have been engineered to express an anti-CD19 chimeric antigen receptor. According to the applicant, this therapy targets the CD19 antigen on the cell surface of normal and malignant B-cells. The applicant stated that Tercartus differs from other previously approved technologies because it has a distinct cellular product that requires a unique manufacturing process.

According to the applicant, MCL is a rare and aggressive subtype of non-Hodgkin lymphoma (NHL) with distinct characteristics701 702 that accounts for 3–10% of all cases of NHL in the United States and differs from diffuse large B-cell lymphoma (another subtype of NHL).703 704 705

The applicant stated that MCL has an annual incidence of 0.5 to 1 cases per 100,000 population with a male-to-female ratio of 3:1 with a median age at diagnosis for patients with MCL of 68 years.706 MCL results from a malignant transformation of the B lymphocyte in the outer edge of a lymph node follicle (the mantle zone). Prognosis varies for r/r MCL, but the median survival for MCL is 3–5 years depending on the risk group (the Mantle Cell Lymphoma International Prognostic Index categorizes patients into low, intermediate and high risk groups), according to the applicant.707 According to the applicant, the preferred first line therapy is bendamustine-rituximab which has decreased toxicity and improved progression-free survival as compared to rituximab with cyclophosphamide, doxorubicin, vincristine, and prednisone.708

According to the applicant, rituximab is also the only approved therapy for maintenance for patients in remission. The applicant stated the median progression free survival ranges from 29–51 months with most of MCL patients eventually relapsing. The applicant contended that approximately 40% of patients end up with durable long-term remission after a chemoimmunotherapy first line therapy.709 710 711

The applicant indicated that there is no standard of care that exists for second-line and higher chemotherapy when a patient has relapsed or refractory MCL.712 According to the applicant, second line therapies typically depend on the front line therapy utilized, comorbidities, the tumor’s sensitivity to chemotherapy, and overall risk-benefit. According to the applicant, currently available options for second line therapy include:

Cytotoxic chemotherapy, proteasome inhibitors (PI), immunomodulatory drugs (IMID), tyrosine kinase inhibitors, and stem cell transplant (both autologous and allogenic stem cell transplant [ASCT, allo-SCT]). According to the applicant, Bruton’s tyrosine kinase (BTK) inhibitors, ibrutinib, zanubrutinib, and acalabrutinib, are common third-line therapy used for patients with r/r MCL and have shown to offer improvements over other chemotherapy-based regimens for r/r MCL patients. The applicant performed a literature review and meta-analysis of patients with r/r MCL whose disease had progressed during or following treatment with a BTK inhibitor and found that despite high initial response rates, most patients eventually developed progressive disease.

Therefore, according to the applicant, new therapeutic strategies are needed to improve the prognosis of patients with r/r MCL whose disease has not been effectively controlled with chemotherapy, stem cell transplant, and BTK inhibitors.

With respect to the newness criterion, the applicant indicated that the FDA approved the Tecartus Biologics License Application (BLA) on July 24, 2020 for the indication of the treatment of adult patients with relapsed/refractory mantle cell lymphoma (MCL). According to the applicant, Tecartus was granted Breakthrough Therapy designation for the treatment of patients with r/r MCL on June 15, 2018 and received Orphan Drug designation in 2016 for the treatment of MCL, acute lymphoblastic leukemia and chronic lymphocytic leukemia. The following IC–10–PCS codes were established effective October 1, 2020 to identify the administration of Tecartus: XW23346 (Transfusion of brexucabtagene autoleucel immunotherapy into peripheral vein, percutaneous approach, new technology group 6) and XW24346 (Transfusion of brexucabtagene autoleucel immunotherapy into central vein, percutaneous approach, new technology group 6).

As previously discussed, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion for substantial similarity, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, according to the applicant, Tecartus is the first CAR T-cell immunotherapy indicated for the treatment of r/r MCL. The applicant further asserted that it does not use a substantially similar mechanism of action. The applicant asserts the FDA concluded and approved Tecartus as distinct from YESCARTA® based on differences in the manufacturing process, certain product specifications and impurities, and formulation of the final products. Furthermore, the applicant stated that Tecartus is distinct from currently available CAR T-cell immunotherapies, namely YESCARTA® and KYMRIAH®, because neither prior CAR T-cell therapy is indicated for the treatment of patients with r/r MCL, and other differences include the manufacturing process, certain product specifications and impurities, and the final dose formulation as determined by the FDA. The applicant stated that MCL is a unique subtype of B-cell Non-Hodgkin’s Lymphoma (NHL) and is distinct from DLBCL as determined by the 2016 WHO classification. The applicant stated it reviewed data from the FY 2019 100 percent MedPAR Hospital Limited Data Set to obtain a reference of currently available products used in the treatment of r/r MCL. The applicant stated that based on this analysis, available products used in the treatment of r/r MCL included: chemotherapies, PI, IMiD, or BTK inhibitors. The applicant described Tecartus as an autologous CAR T-cell immunotherapy, which genetically modifies the patient’s own T-cells to target and eliminate tumor cells for the treatment of r/r MCL and asserted that because Tecartus is an autologous CAR T-cell immunotherapy, it does not use the same mechanism as other treatments currently used to treat r/r MCL (chemotherapies, PI, IMiD, or BTK inhibitors).

To further note the differences between Tecartus’s mechanism of action and other available therapies for r/r MCL, the applicant stated that Tecartus represents a unique product that is customized for B-cell malignancies bearing high levels of circulating CD19-expressing tumor cells. Given these genetic modifications and differences, as previously noted, the applicant described Tecartus as having a different mechanism of action from existing r/r MCL therapies.

The applicant stated that Tecartus is a distinct cellular product and is produced by a unique manufacturing process customized for B-cell malignancies characterized by circulating tumor cells and is designed to minimize the number of CD19-expressing tumor cells in the final product. The T-cells in the leukapheresis product are enriched by positive selection, activated by culturing with anti-CD3 and anti-CD28 antibodies, and then transduced with a retroviral vector containing the anti-CD19 CAR gene. These engineered T-cells are then propagated in culture to generate a sufficient number of cells to achieve a therapeutic effect upon infusion back into the patient. The applicant further stated that Tecartus has a different mechanism of action as compared to YESCARTA® given that the European Medicines Agency (EMA) deemed Tecartus and YESCARTA® as different products.

With respect to the second criterion for substantial similarity, whether a product is assigned to the same or a different MS–DRG, the applicant noted that CMS has established the new MS–DRG 018 (Chimeric Antigen Receptor (CAR) T-cell Immunotherapies), effective October 1, 2020, for CAR T-cell therapies. However, the applicant asserted that Tecartus will be uniquely identified by IC–10–PCS codes different from those used to identify YESCARTA® and KYMRIAH®. As previously noted, under the current coding system, cases reporting the use of Tecartus would be coded with IC–10–PCS codes XW23346 and XW24346, which are currently assigned to MS–DRG 018, and therefore we believe that cases reporting the use of Tecartus would be assigned to the same MS–DRG as existing CAR T-cell therapies.

With respect to the third criterion for substantial similarity, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant stated that Tecartus is the first and only CAR T-cell immunotherapy indicated for the treatment of r/r MCL which is identified by IC–10–CM C83.1X, mantle cell lymphoma, unspecified site. The applicant noted that the patients treated by YESCARTA® and KYMRIAH® are not assigned IC–10–CM diagnosis code C83.1X (Mantle cell lymphoma, unspecified site), as would patients treated with Tecartus. As previously mentioned, the applicant described that MCL results from a malignant transformation of a B lymphocyte in the outer edge of the lymph node follicle. The applicant further stated that diffuse large b-cell lymphoma (DLBCL), which YESCARTA® and KYMRIAH® treat, is defined as a neoplasm of large B cells arranged in a diffuse pattern. The applicant described this distinction as evidence that Tecartus treats a different subtype of NHL, r/r MCL, as compared to other FDA approved CAR T-cell therapies. However, we note that the applicant recognized in its application that MCL and DLBCL patients share...
similar clinical presentation of lymphadenopathy, splenomegaly and constitutional symptoms. The applicant also noted that the disease courses for MCL and DLBCL are different given that MCL has a unique molecular pathogenesis. The applicant stated that patients with r/r MCL often present with high levels of circulating tumor cells which are inherent to the disease or due to peripheral mobilization of tumor cells induced by BTK inhibitor therapy. According to the applicant, MCL requires a customized CAR T-cell therapy for B-cell malignancies bearing high levels of circulating CD19-expressing tumor cells in order to provide a functional autologous cellular therapy. Unlike MCL, the presence of circulating tumor cells occurs only rarely in patients with DLBCL.

With respect to the first criterion, the applicant asserted that Tecartus would provide a new treatment option for adult patients with r/r MCL and therefore is not substantially similar to any existing technologies. We note that for FY 2019 (83 FR 41299), CMS approved two CD19 directed CAR T-cell therapies, YESCARTA® and KYMRIAH®, for new technology add-on payments. In regard to the mechanism of action, the applicant acknowledged that Tecartus is a form of CAR T-cell immunotherapy that modifies the patient’s own T-cells, as are YESCARTA® and KYMRIAH®. However, the applicant asserted that the manufacturing process used by Tecartus makes the therapy significantly different from YESCARTA®. The applicant further asserted that its unique manufacturing process which includes a T-cell selection step for patients with MCL, ALL, and CLL is distinct from that used for the manufacture of YESCARTA® for the treatment of patients with malignancies characterized by high numbers of circulating tumor types.

Similar to our discussion of the FY 2021 application in the FY 2021 IPPS/LTCN PPS proposed rule (85 FR 32636–32637), we are concerned as to whether the differences the applicant described in the manufacturing process should be considered a different mechanism of action as compared to previous CAR T-cell therapies. We note, in their review, the FDA identified many similarities between Tecartus and YESCARTA® to include that, “the YESCARTA® and KTE–X19 final products are very similar and are formulated identically. The same release testing methods are used for both products.” Further, as Tecartus is also a CD19-directed T-cell immunotherapy for the treatment of patients with an aggressive subtype of NHL, we continue to question whether the differences identified by the applicant would mean that Tecartus does not have a similar mechanism of action to existing CD19-directed CAR T-cell therapies. We are seeking public comment as to whether the differences the applicant described in the manufacturing process should be considered a different mechanism of action, as compared to previous CAR T-cell therapies.

With regard to the third criterion for substantial similarity, though the applicant described differences between MCL and DLBCL, the applicant also stated that patients with MCL and DLBCL share similar clinical presentation of lymphadenopathy, splenomegaly and constitutional symptoms, and they are both subtypes of NHL. We therefore question whether this therapy may involve the treatment of a similar type of disease when compared to existing CAR T-cell therapies.

We are inviting public comments on whether Tecartus is substantially similar to other technologies and whether Tecartus meets the newness criterion.

With regard to the cost criterion, the applicant searched the FY 2019 MedPAR claims data file with the FY 2019 Final Rule IPPS Impact File to identify potential cases representing patients who may be eligible for treatment using Tecartus.

The applicant identified claims that reported an ICD–10–CM diagnosis code of ICD–10–CM C83.1X (Mantle cell lymphoma, unspecified site). The applicant stated that claims reporting ICD–10–CM code C83.1X would not involve the use of the other two approved CAR T-cell therapies because those therapies are not used to treat this diagnosis. MCL. As such, the applicant stated that it used C83.1X to identify potential MCL cases and ICD–10–PCS codes XW033C3 and XW043C3 to identify patients receiving CAR T-cell therapy. In its analysis, the applicant identified two sets of cohorts (Primary Cohort and Sensitivity Analysis Cohort) to assess whether this therapy met the cost criterion. The ICD–10–PCS procedure codes listed in the following table were used to identify claims involving chemotherapy and the applicant noted that these were used for both cohorts.

717 Price G, Reiser J, Saiz T. CBER CMC BLA Review Memorandum, BLA #125703, TECARTUS brexucabtagene autoleucel. FDA.
The applicant identified two cohorts for these analyses and used two CCRs to account for the cost of their technology. The Primary Cohort included cases with an ICD–10–CM primary diagnosis of MCL, at least one procedure code indicating receipt of chemotherapy, and no ICD–10–PCS procedure codes indicating CAR T-cell therapy. The applicant believed the Primary Cohort most closely aligned with the characteristics and health of r/r MCL patients who would receive Tecartus given that this cohort includes patients with far advanced disease (comparable to the ZUMA–2 study, as discussed later in this section). The Sensitivity Analysis Cohort included patients with the ICD–10–CM principal or secondary diagnosis of MCL, at least one procedure code indicating receipt of chemotherapy, and no ICD–10–PCS procedure codes indicating CAR T-cell therapy. For each cohort, the applicant performed two sub-analyses that varied the CCR used to calculate Tecartus charges: (1) The national pharmacy CCR of 0.187; and (2) the applicant calculated CAR T-cell CCR of 0.314.

According to the applicant, based on the primary diagnosis code and the presence of chemotherapy, these cases signify that the primary reason for hospitalization was treatment of the patient’s MCL, including the complications of their advancing disease and chemotherapy-related complications, and resulted in charges and longer lengths of stay believed to be most reflective of the r/r MCL population that is treated by TECARTUS. The applicant added that this group of MCL cases with MCL as a primary diagnosis most closely compares with the characteristics and health resource utilization of r/r MCL patients that will receive TECARTUS. Furthermore, the applicant stated that the cases in the Primary Cohort had higher charges across all categories than the cases with MCL as a secondary diagnosis. The cases with MCL as a primary diagnosis are according to the applicant more reflective of the r/r MCL cases as those were more likely being treated for the complications of their advancing disease and chemotherapy-related complications. The average length of stay for hospitalizations in the Primary Cohort was 15.1 days. Lastly, in explaining why CAR T-cell MCL cases from FY 2019 were excluded from the cost analysis, the applicant stated that they could not identify specific charges for CAR T-cell therapy, no individual revenue center had charges similar to those expected for CAR T-cell therapy, and there were no CAR T-cell therapy products approved for the treatment of MCL in FY 2019.

The applicant stated that to estimate the CAR T-cell CCR, they obtained the MS–DRG 018 arithmetic mean charge in the AOR/BOR FY 2021 Proposed Rule File released by CMS ($1,387,946). The applicant subtracted non-drug charges for TECARTUS of $201,610 (based on the TECARTUS FY 2021 new technology add-on payment application) from total arithmetic mean charge to estimate CAR T-cell charges (approximately $1,186,336). The applicant then divided a WAC of CAR T-cell therapy of $373,000 by the estimated CAR T-cell charges to estimate a charge-to-cost ratio of 0.314

$$CCR = \frac{373,000}{1,186,336}$$

The claim search conducted by the applicant resulted in 267 claims in the Primary Cohort, mapped to 13 MS–DRGs, and 1,100 claims in the Sensitivity Analysis Cohort, mapped to 59 MS–DRGs using the FY 2019 MedPAR Hospital LDS based on the requirements for each cohort outlined by the applicant. The applicant stated that because TECARTUS cases are mapped to MS–DRG 018, the cost criterion analysis utilized the threshold for MS–DRG 018 for all MS–DRGs included in each cohort rather than the MS–DRG specific threshold. The applicant determined an average unstandardized case weighted charge per case of $1,251,126 for the Primary cohort and $1,251,126 for the Sensitivity Analysis Cohort.

**ICD-10-PCS Procedure Codes Describing Chemotherapy**

<table>
<thead>
<tr>
<th>ICD-10-PCS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3E03002</td>
<td>Introduction of high-dose interleukin-2 into peripheral vein, open approach</td>
</tr>
<tr>
<td>3E03003</td>
<td>Introduction of low-dose interleukin-2 into peripheral vein, open approach</td>
</tr>
<tr>
<td>3E03005</td>
<td>Introduction of other antineoplastic into peripheral vein, open approach</td>
</tr>
<tr>
<td>3E03302</td>
<td>Introduction of high-dose interleukin-2 into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>3E03303</td>
<td>Introduction of low-dose interleukin-2 into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>3E03305</td>
<td>Introduction of other antineoplastic into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>3E04002</td>
<td>Introduction of high-dose interleukin-2 into central vein, open approach</td>
</tr>
<tr>
<td>3E04003</td>
<td>Introduction of low-dose interleukin-2 into central vein, open approach</td>
</tr>
<tr>
<td>3E04005</td>
<td>Introduction of other antineoplastic into central vein, open approach</td>
</tr>
<tr>
<td>3E04302</td>
<td>Introduction of high-dose interleukin-2 into central vein, percutaneous approach</td>
</tr>
<tr>
<td>3E04303</td>
<td>Introduction of low-dose interleukin-2 into central vein, percutaneous approach</td>
</tr>
</tbody>
</table>
| 3E04305         | Introduction of other antineoplastic into central vein, percutaneous approach 
<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>840</td>
<td>Lymphoma &amp; Non-Acute Leukemia w MCC</td>
</tr>
<tr>
<td>841</td>
<td>Lymphoma &amp; Non-Acute Leukemia w CC</td>
</tr>
<tr>
<td>016</td>
<td>Autologous Bone Marrow Transplant w CC/MCC Or T-Cell Immunotherapy</td>
</tr>
<tr>
<td>823</td>
<td>Lymphoma &amp; Non-Acute Leukemia w Other Proc w MCC</td>
</tr>
<tr>
<td>842</td>
<td>Lymphoma &amp; Non-Acute Leukemia w/o CC/MCC</td>
</tr>
<tr>
<td>824</td>
<td>Lymphoma &amp; Non-Acute Leukemia w Other Proc w CC</td>
</tr>
<tr>
<td>014</td>
<td>Allogeneic Bone Marrow Transplant</td>
</tr>
<tr>
<td>017</td>
<td>Autologous Bone Marrow Transplant w/o CC/MCC</td>
</tr>
<tr>
<td>820</td>
<td>Lymphoma &amp; Leukemia w Major O.R. Procedure w MCC</td>
</tr>
<tr>
<td>003</td>
<td>Ecmo Or Trach w Mv &gt;96 Hrs or Pdx Exc Face, Mouth &amp; Neck w Maj O.R.</td>
</tr>
<tr>
<td>004</td>
<td>Trach w Mv &gt;96 Hrs or Pdx Exc Face, Mouth &amp; Neck w/o Maj O.R.</td>
</tr>
<tr>
<td>821</td>
<td>Lymphoma &amp; Leukemia w Major O.R. Procedure w CC</td>
</tr>
<tr>
<td>825</td>
<td>Lymphoma &amp; Non-Acute Leukemia w Other Proc w/o CC/MCC</td>
</tr>
<tr>
<td>MS-DRG</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>847</td>
<td>Chemotherapy w/o Acute Leukemia As Secondary Diagnosis w CC/CC/MCC</td>
</tr>
<tr>
<td>846</td>
<td>Chemotherapy w/o Acute Leukemia As Secondary Diagnosis w MCC/MCC</td>
</tr>
<tr>
<td>840</td>
<td>Lymphoma &amp; Non-Acute Leukemia w MCC/MCC</td>
</tr>
<tr>
<td>841</td>
<td>Lymphoma &amp; Non-Acute Leukemia w CC/CC/MCC</td>
</tr>
<tr>
<td>016</td>
<td>Autologous Bone Marrow Transplant w CC/MCC or T-Cell Immunotherapy</td>
</tr>
<tr>
<td>823</td>
<td>Lymphoma &amp; Non-Acute Leukemia w Other Proc w CC/MCC</td>
</tr>
<tr>
<td>842</td>
<td>Lymphoma &amp; Non-Acute Leukemia w/o CC/MCC</td>
</tr>
<tr>
<td>844</td>
<td>Lymphoma &amp; Non-Acute Leukemia w Other Proc w CC/MCC</td>
</tr>
<tr>
<td>829</td>
<td>Myeloproliferative Disorders or Poorly Differentiated Neoplasms w Other Procedure w CC/MCC</td>
</tr>
<tr>
<td>014</td>
<td>Allogeneic Bone Marrow Transplant</td>
</tr>
<tr>
<td>862</td>
<td>Renal Failure w MCC</td>
</tr>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis w/o Mv &gt;96 Hours w MCC</td>
</tr>
<tr>
<td>817</td>
<td>Autologous Bone Marrow Transplant w/o CC/MCC</td>
</tr>
<tr>
<td>838</td>
<td>Chem w Acute Leukemia As Sdx w CC Or High Dose Chemo Agent</td>
</tr>
<tr>
<td>820</td>
<td>Lymphoma &amp; Leukemia w Major O.R. Procedure w MCC</td>
</tr>
<tr>
<td>808</td>
<td>Major Hemato/Immun Diag Exc Sickle Cell Crisis &amp; Coagul w MCC</td>
</tr>
<tr>
<td>809</td>
<td>Major Hemato/Immun Diag Exc Sickle Cell Crisis &amp; Coagul w CC</td>
</tr>
<tr>
<td>833</td>
<td>Renal Failure w CC</td>
</tr>
<tr>
<td>804</td>
<td>Trach w Mv &gt;96 Hrs or Pdx Exc Face, Mouth &amp; Neck w/o Maj O.R.</td>
</tr>
<tr>
<td>804</td>
<td>Fever and Inflammatory Conditions</td>
</tr>
<tr>
<td>833</td>
<td>Renal Failure w CC</td>
</tr>
<tr>
<td>826</td>
<td>Chemo w Acute Leukemia as Sdx or w High Dose Chemo Agent w MCC</td>
</tr>
<tr>
<td>846</td>
<td>Transcendental Procedures w MCC</td>
</tr>
<tr>
<td>901</td>
<td>Other Disorders of Nervous System w MCC</td>
</tr>
<tr>
<td>943</td>
<td>Pathological Fractures &amp; Musculoskeletal &amp; Conn Tiss Malig w CC</td>
</tr>
<tr>
<td>834</td>
<td>Deep Vein Thrombophlebitis w CC/MCC</td>
</tr>
<tr>
<td>854</td>
<td>Infectious &amp; Parasitic Diseases w O.R. Procedure w CC/MCC</td>
</tr>
<tr>
<td>314</td>
<td>Other Circulatory System Diagnoses w CC</td>
</tr>
<tr>
<td>606</td>
<td>Minor Skin Disorders w MCC</td>
</tr>
<tr>
<td>641</td>
<td>Misc Disorders of Nutrition, Metabolism, Fluids/Electrolytes w/o MCC</td>
</tr>
<tr>
<td>302</td>
<td>Esophagitis, Gastritis &amp; Misc Digest Disorders w/o MCC</td>
</tr>
<tr>
<td>827</td>
<td>Myeloprolif Dis or Poorly Diff Neopl w Maj O.R. Proc w CC/MCC</td>
</tr>
<tr>
<td>253</td>
<td>Other Vascular Procedures w CC</td>
</tr>
<tr>
<td>844</td>
<td>Acute Leukemia w/o Major O.R. Procedure w MCC/MCC</td>
</tr>
<tr>
<td>552</td>
<td>Medical Back Problems w/o MCC</td>
</tr>
<tr>
<td>673</td>
<td>Other Kidney &amp; Urinary Tract Procedures w MCC</td>
</tr>
<tr>
<td>393</td>
<td>Other Digestive System Diagnoses w MCC</td>
</tr>
<tr>
<td>371</td>
<td>Major Gastrointestinal Disorders &amp; Peritoneal Infections w MCC</td>
</tr>
<tr>
<td>315</td>
<td>Other Circulatory System Diagnoses w CC</td>
</tr>
<tr>
<td>607</td>
<td>Minor Skin Disorders w/o MCC</td>
</tr>
<tr>
<td>205</td>
<td>Other Respiratory System Diagnoses w MCC</td>
</tr>
<tr>
<td>602</td>
<td>Cellulitis w MCC</td>
</tr>
<tr>
<td>925</td>
<td>Craniootomy &amp; Endovascular Intracranial Procedures w MCC</td>
</tr>
<tr>
<td>811</td>
<td>Red Blood Cell Disorders w MCC</td>
</tr>
<tr>
<td>270</td>
<td>Other Major Cardiovascular Procedures w MCC</td>
</tr>
<tr>
<td>871</td>
<td>Nonspecific Cerebrovascular Disorders w CC</td>
</tr>
<tr>
<td>273</td>
<td>Percutaneous Intracardiac Procedures w MCC</td>
</tr>
</tbody>
</table>
The applicant then removed charges for priority technology. The applicant stated that the cases representing patients who had received chemotherapy, as reflected by the Medicare claims data, would generally not receive both chemotherapy and Tecartus as an inpatient because conditioning chemotherapy would be administered in the outpatient setting before the patient would be admitted for Tecartus infusion and monitoring. Otherwise, the applicant asserted that patients receiving Tecartus would be expected to incur similar charges to those cases in the Medicare claims data for patients with a primary diagnosis of MCL and receiving chemotherapy (Primary Cohort). In its analysis, the applicant noted that in the FY 2019 MedPAR Hospital LDS, charges for chemotherapy drugs were grouped with charges for oncology, diagnostic radiology, therapeutic radiology, nuclear medicine, CT scans, and other imaging services. The applicant believed that removing all radiology charges would underestimate the cost of adverse event (AE) clinical management for Tecartus patients needed. The applicant found that when using data from the Q4 2017 and Q1 Q3 2018 Standard Analytic files and comparing total chemotherapy charges to total radiology charges, 2 percent of radiology charges were chemotherapy charges, on average. Therefore, instead of removing all radiology charges, the applicant excluded 2 percent of the radiology charge amount to capture the effect of removing chemotherapy pharmacy charges.

The applicant then standardized the charges and applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges (1.13218). For the Primary and Sensitivity cohorts, the applicant performed two sub-analyses that varied the CCR used to calculate Tecartus charges: (1) using the national pharmacy CCR (0.187); and (2) using the CAR T-cell CCR (0.314).

The applicant stated that when comparing the Primary Cohort to the MS-DRG 018 average case-weighted threshold amount (based on the FY 2021 IPPS/LTCH PPS final rule) and using the national pharmacy CCR, the final inflated average case-weighted standardized charge per case of $2,207,969 exceeded the average case-weighted threshold amount of $1,251,126 by $956,843. When using the CAR T-cell CCR, the final inflated average case-weighted standardized charge per case of $1,399,653 exceeded the average case-weighted threshold amount of $1,251,126 by $148,527. The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the therapy meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that Tecartus represents a new treatment option for an adult patient population unresponsive to, or ineligible for, currently available treatments. The applicant also believes that the use of Tecartus significantly improves clinical outcomes for a patient with r/r MCL as compared to currently available therapies, including BTK inhibitors. The applicant stated that Tecartus provides access to a treatment option for patients with r/r MCL who have not been responsive to first line or second line therapies. The applicant provided further detail regarding these

<table>
<thead>
<tr>
<th>MS-DRGs in Sensitivity Analysis Cohort</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>826</td>
<td>Myeloprolif Disord or Poorly Diff Neop Pl w Maj O.R. Proc w MCC</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCC</td>
</tr>
<tr>
<td>867</td>
<td>Other Infectious &amp; Parasitic Diseases Diagnoses w MCC</td>
</tr>
<tr>
<td>191</td>
<td>Chronic Obstructive Pulmonary Disease w CC</td>
</tr>
<tr>
<td>982</td>
<td>Extensive O.R. Procedure Unrelated to Principal Diagnosis w CC</td>
</tr>
<tr>
<td>391</td>
<td>Esophagitis, Gastroenter &amp; Misc Digest Disorders w MCC</td>
</tr>
<tr>
<td>699</td>
<td>Other Kidney &amp; Urinary Tract Diagnoses w CC</td>
</tr>
<tr>
<td>309</td>
<td>Cardiac Arrhythmia &amp; Conduction Disorders w CC</td>
</tr>
<tr>
<td>100</td>
<td>Seizures w MCC</td>
</tr>
<tr>
<td>662</td>
<td>Minor Bladder Procedures w MCC</td>
</tr>
<tr>
<td>186</td>
<td>Pleural Effusion w MCC</td>
</tr>
</tbody>
</table>
assertions, referencing the results of a Phase 2 study (Zuma-2) and historical and meta analyses, which are summarized in this section of this rule.

According to the applicant, because no effective standard therapy for subjects with r/r MCL who have progressed following a prior BTK inhibitor therapy exists, ZUMA-2 lacked a comparison arm. The applicant described how a historical control was the only ethical and feasible study design for patients with r/r MCL who had not responded to the most promising therapies available, including BTK inhibitors. Therefore, the historical control was identified from prior studies identified in a meta-analysis of six studies, which included two studies by Martin et al., (2016) and Cheah et al., (2015), and covered 255 subjects. The ORRs in these six studies ranged from 20%–42% with the applicant identifying 26% \(^724\) and 32% \(^719\) for use as their comparator.

According to the Martin et al. (2016) retrospective cohort study referenced by the applicant, the investigators reported best response rate (RR) to ibrutinib was 55% (43% partial response [PR], 12% complete response [CR]), with 35% of patients having a best response of progressive disease. But among patients who received subsequent therapy, local clinicians reported that 13 patients (19%) achieved PR, and 5 (%7) achieved CR. The median overall survival (OS) following cessation of ibrutinib was 2.9 months (95% confidence interval [CI], 1.6–4.9). Of the 104 patients with data available, 73 underwent at least one additional line of currently available treatment after stopping ibrutinib with a median OS of 5.8 months (95% confidence interval [CI], 3.7–10.4).\(^720\)

A second retrospective study by Cheah et al. identified 42 (54%) who had discontinued therapy of 78 patients with MCL who had been treated at MD Anderson Cancer Center between 2011 and 2014. \(^721\) All 42 patients had received ibrutinib with a median number of cycles of 6.5 (range 1–43). Twenty-eight patients (67%) had disease progression as the main reason for therapy discontinuation. Of the 31 patients who experienced disease progression following ibrutinib and underwent salvage therapy, the overall objective response rate (ORR) and complete response rate (CRR) was 32% and 19%, respectively. After a median follow-up of 10.7 (range 2.4–38.9) months from discontinuation of ibrutinib, the median OS among patients with disease progression was 8.4 months and the estimated one-year OS was 22.1% (95% CI 8.3% to 40.2%).

The applicant summarized further studies that featured BTK therapy. Dreyling et al. and Epperla et al. identified ORRs of 20% and 42% respectively while Wang et al. identified an ORR of 29%, CR rate of 14%, and PR rate of 15% and Jain et al. identified an ORR of 29%, CR rate of 14%, and PR rate of 15%. \(^722\) \(^723\) \(^724\) \(^725\)

To evaluate the effectiveness of Tecartus, the applicant noted it used an ORR comparison of 25%, which was derived from two aforementioned studies (Martin et al. and Cheah et al.) with patients with r/r MCL who progressed on the most predominantly prescribed BTK inhibitor, ibrutinib. The results of these two studies showed a median OS of 5.8 months after receiving at least 1 additional line of currently available therapy to treat r/r MCL. Those who did not receive salvage therapy had a median OS of 0.8 months. \(^726\)

According to the applicant, the ZUMA-2 study of Tecartus is the only pivotal study of CAR T-cell therapy for r/r MCL. ZUMA-2 is a multicenter, open-label, Phase 2 study which evaluated the safety and efficacy of Tecartus in patients with r/r MCL that relapsed or were refractory to prior therapy, including BTK inhibitors. The primary endpoint of BTK inhibition was ORR from the study to the ORR 25% historical control at a one-sided alpha level of 0.025. The applicant stated that ZUMA-2 was not designed to compare the efficacy and safety of TECARTUS to BTK inhibitors, and the results of ZUMA-2 are not intended to indicate that TECARTUS should definitively be utilized to replace any existing therapies. Participants were required to have received prior treatment for MCL, no more than five prior regimens, which must have included anthracycline (or bendamustine containing chemotherapy), an anti-CD20 monoclonal antibody and BTK inhibitor. The ZUMA-2 study included 68 subjects treated with Tecartus out of 75 patients enrolled. The safety analysis included a review of all 68 subjects, with the primary analysis of efficacy reviewing the first 60 subjects treated with Tecartus. ZUMA-2 was conducted at 20 sites in the United States and Europe. Of the 60 subjects in the primary analysis set, 59 were from U.S. sites. Of the 68 subjects in the safety analysis set, 62 were from U.S. sites. Among the 68 subjects, the median age was 65 years (range 38–79) and 57 subjects (84%) were male. Additionally, 58 subjects (85%) had stage IV disease.

The sample had a median of 3 prior therapies with 55 (81%) having received at least 3 prior therapies. In addition, 43% had relapsed after a prior autologous stem cell transplant (ASCT; the remaining subjects had either relapsed after or were refractory to their last therapy for MCL.

The applicant asserted that the use of Tecartus significantly improves clinical outcomes for a patient population as compared to currently available treatments. The applicant contended that a BTK inhibitor, is the most common third-line therapy used for patients with r/r MCL \(^727\) \(^728\) and has shown to offer improvements over other chemotherapy-based regimens for r/r MCL patients. The applicant also referenced a more selective BTK inhibitor, acalabrutinib, which was approved in the US for the treatment of patients with r/r MCL. \(^729\) In registrational trials, the ORR and CRR were 66% and 17%, respectively for ibrutinib, and 81% and 40%, respectively, for acalabrutinib. \(^731\) The


applicant contended that primary and secondary resistance to BTK inhibitors is common, and subsequent therapies currently available are minimally effective.  

Among the 68 patients treated in the ZUMA-2 study, the primary efficacy analysis was conducted after 60 patients had been enrolled, treated, and evaluated for response for six months after the week four disease assessment. Based on the primary analysis of the 60 subjects included in the ZUMA-2 study, there was an ORR of 93% after a single dose of Tecartus (56 of 60 subjects with a 95% CI of 83.8%, 98.2%). The applicant reported that the complete response rate was 67% (40 of 60 subjects with a 95% CI of 53.3%, 78.3%). The applicant noted the ORR of 93% and CR 67% were observed across age groups (94% ages ≥65; 93% ages <65 and, of the 40 subjects achieving CR, 22 subjects were aged ≥65 and 18 were aged <65). The applicant highlighted that the ORR of 93% was significantly higher than the prespecified historical control rate of 25%. Furthermore, the applicant noted that among the 42 subjects who initially had a partial response (PR) or stable disease (SD), 24 subjects (57%) went on to achieve a CR after a median of 2.2 months (range: 1.8 to 8.3 months). Twenty-one subjects converted from PR to CR, and 3 subjects converted from stable disease (SD) to CR.  

According to the applicant, the median DOR was not reached with a median follow-up time for DOR of 8.6 months (95% CI: 7.8, 19.6 months) with a median study follow-up of 12.3 months; this result was consistent across age groups. Kaplan-Meier estimates of progression free survival (PFS) rates at 6 months and 12 months were 77.0% and 60.9%, respectively, and the median PFS was not reached at the median potential follow-up of 12.3 months. Additionally, 57% of all patients and 78% of patients with a CR remained in remission (results consistent across age groups). Furthermore, as reported by the applicant, among the first 28 subjects studied as part of the interim analysis, 43% remained in continued remission without additional therapy at the follow-up period of 27 months (range, 25.3–32.3). The applicant also conducted an additional analysis of OS among the first 28 subjects (ZUMA-2 interim analysis) who were treated with Tecartus and had a potential follow-up of ≥24 months. Among these subjects, the OS rate estimate at 24 months was 67.9% and the median OS was not reached. In comparison, the Cheah et al. (2015) post-ibrutinib salvage therapy study reported a lower one-year survival rate of 22%. Additionally, among the subjects in CR at month 3 who had the opportunity to be followed to month 12, 90% remained in CR at month 12. The applicant contended that this statistic showcased that early responses to Tecartus are likely indicative of long-term remission after the single infusion of Tecartus. Furthermore, the applicant suggested that a substantial number of patients with r/r MCL treated with Tecartus will achieve a CR, and that suggests these patients will likely experience a long-term remission after a single infusion of Tecartus. The applicant also noted that these results were consistent across age groups at the time of the primary data analysis cut-off (July 24, 2019). By contrast, the applicant noted that patients with r/r MCL who had prior BTK inhibitor treatment had CR rates ranging from 7–22%. Additionally, the applicant noted that the majority of patients on BTK inhibitor treatment not able to have progressive disease given that the ORR of 93% after a single infusion of Tecartus. The applicant mentioned that 43 of the 68 patients (63%) in the ZUMA-2 study also experienced forms of neurologic events. Of these, 15 subjects (22%) had a worst Grade 3 neurologic event, and 6 subjects (9%) had a worst Grade 4 neurologic event. Twenty-two subjects (32%) had serious neurologic events, however, the applicant noted no subject had a Grade 5 neurologic event. The most common neurologic events of any grade were pyrexia, hypotension, and hypoxia. The most common Grade 3 or higher CRS symptoms were hypotension (35 subjects, 51%), hypoxia (23 subjects, 34%), and pyrexia (62 subjects, 91%). No patient in the ZUMA-2 study treated with Tecartus died from CRS. The applicant mentioned that 43 of the 68 patients (63%) in the ZUMA-2 study also experienced forms of neurologic events. Of these, 15 subjects (22%) had a worst Grade 3 neurologic event, and 6 subjects (9%) had a worst Grade 4 neurologic event. Twenty-two subjects (32%) had serious neurologic events, however, the applicant noted no subject had a Grade 5 neurologic event. The most common neurologic events of any grade were encephalopathy (21 subjects, 31%), confusional state (14 subjects, 21%), and tremor (24 subjects, 35%). Compared with subjects who were <65 years of age, subjects who were ≥65 years of age showed a trend toward a higher incidence of Grade 3 or higher neurologic events (36% versus 24%). The applicant noted that these neurologic events resolved for all but 6 subjects and that among those whose neurologic events had resolved, the median duration was 12 days. Additionally, no patient died from neurologic events.  

734 Cheah CY, et al. Patients with mantle cell lymphoma failing ibrutinib are unlikely to respond to salvage chemotherapy and have poor outcomes, Ann Oncol. 2015;26(6):1175–9.  
In response to CMS’s concern as discussed in the FY 2021 IPPS/LTCH PPS proposed rule (85 FR 32646–32647) regarding the generalizability of the findings from ZUMA–2 to the general Medicare population, the applicant stated that the ZUMA–2 study sample is representative of the Medicare population. The applicant stated that 57% of the sample were 65 to 79 years of age, and that MCL predominantly affects older adults, with a median age at diagnosis ranging from 65 to 73.471 472 The applicant asserted that the key baseline characteristics of the ZUMA–2 population mirror the r/r MCL Medicare population refractory to BTK inhibitors, including age of study subjects and stage of disease at study initiation.

Overall, ZUMA–2 primary results showed that at the time of the analysis cutoff (July 2019), 16 of 68 subjects (24%) had died; 4 deaths occurred >30 days through 3 months after infusion of Tecartus and 12 deaths occurred ≥3 months after infusion of Tecartus. Fourteen of the 16 subjects died as a result of progressive disease and two of the 16 subjects died due to AEs (Grade 5 AE of staphylococcal bacteremia and Grade 5 AE of organizing pneumonia). Based on the information provided by the applicant, we have several concerns with regard to the substantial clinical improvement criterion. As noted in the FY 2021 IPPS/LTCH PPS proposed rule, the combined sample size from the literature search and ZUMA–2 study performed by the applicant is relatively small. While the applicant stated that it closely communicated with FDA in the development of the ZUMA–2 study, including in the development of the sample size determination whether the ZUMA–2 study results would support a determination of substantial clinical improvement given the small sample size. Although the applicant’s analysis of the ZUMA–2 study concluded that Tecartus offers a treatment option for a patient population unresponsive to, or ineligible for, currently available treatments, we question whether the sample size and research presented in this application support extrapolating these results across the Medicare population.

Relatedly, we have concerns regarding the potential for selection bias and its effects on results from the ZUMA–2 study. Seventy-four patients were enrolled in the trial and underwent leukapheresis, of which Tecartus was successfully manufactured for 71 (96%) and administered for 68 (92%).474 According to the authors, the primary efficacy analysis was performed among the 60 first treated patients who had at least 7 months of follow up. We also note that the reported ORR among the first 60 is 93% (95% CI 84–98) and the ORR among all 74 patients enrolled is 89%. We have concerns, given the small sample size, about the potential effects of selection bias and of patients being selected out of a study on the results of ZUMA–2, which forms the keystone of the applicant’s assertions regarding substantial clinical improvement. Further, some research suggests that trials stopped early for benefit overestimate treatment effects.475 476 477 478 and that formal stopping rules do not reduce this bias, particularly in samples less than 500 events or cases.479 Given the lack of confidence intervals around the ORR among all 74 patients and the potential for the overestimation of treatment effects, it is unclear whether there is sufficient information to determine a substantial clinical improvement.

As noted in the FY 2021 IPPS/LTCH PPS proposed rule, there has not been a direct study completed comparing outcomes of patients with r/r MCL treatment with BTK and BTK inhibitors. According to the applicant, ZUMA–2 remains the only study to evaluate patient outcomes after receiving Tecartus for the treatment of r/r MCL, but this study does not include a direct comparison to other existing therapies for r/r MCL. Despite there being no standard of second-line care for r/r MCL patients that failed on previous therapies, according to the applicant, a BTK inhibitor reflects the best currently available therapy for treating r/r MCL.480 The applicant’s assertions of substantial clinical improvement are based on the ZUMA–2 trial that uses a bi-hyper-CVAD ORR of 25%. Given that the ORR in the provided literature review of six articles ranges from 20%–42%, and that, according to the applicant, two specific articles were used to develop the pre-specified historical control rate (26%750 and 32%751 respectively), it is unclear whether the historical control is appropriate or representative of r/r MCL patients. Furthermore, given that the applicant states that ZUMA–2 was not designed to compare efficacy and safety of Tecartus to BTK inhibitors, we are uncertain whether it would support a determination of substantial clinical improvement.

As noted in the FY 2021 IPPS/LTCH PPS proposed rule, a longer-term analysis of this population is not available to evaluate the overall survival and mortality data. We note that the applicant did conduct an additional analysis of OS among the first 28 subjects (ZUMA–2 interim analysis) which showed an OS rate estimate at 24 months of 67.9% while the median OS was not reached. Additionally, the applicant referenced that all subjects in the ZUMA–2 primary analysis had at least 1 adverse event, and that throughout the course of the ZUMA–2 study, 16 deaths were recorded. However, while the applicant noted only 2 of these 16 deaths were related to adverse events, we remain concerned that further analysis may be needed to evaluate the safety of Tecartus and the longer-term effects of the CRS and neurological events associated with the Tecartus therapy.

We are inviting public comments on whether Tecartus meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New


asserted that the high mortality and significant rates of HRS–1-related readmissions support the need for better disease awareness and more effective treatment options. The applicant asserted that there are currently no FDA-approved medications available in the US indicated specifically for the treatment of HRS–1, but several agents are used off-label. The applicant stated that in the U.S., the standard of care and initial treatment for HRS–1 is a combination of midodrine and octreotide, which are used off-label. According to the applicant, this combination is concomitantly administered with albumin. The applicant also stated that in patients who are admitted to the ICU, initial treatment with norepinephrine, also used off-label, in combination with albumin is recommended. The applicant stated that the ideal therapy for HRS–1 is improvement of liver function from either recovery of alcoholic hepatitis, treatment of decompensated hepatitis B with effective antiviral therapy, recovery from acute hepatic failure, or liver transplantation.

According to the applicant, TERLIVAZ® is approved as the first-line treatment for HRS–1 in Europe and Asian countries under appropriate marketing authorizations in those countries.

 Syndrome in Patients with Cirrhosis: A Prospective Cohort Study. Int J Nephrol. 2015;2015:108139.


Sarin S, Sharma P. Terlipressin: A unique ICD–10–PCS code to identify the intravenous infusion of TERLIVAZ®.

As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or similar mechanism of action to achieve a therapeutic outcome, according to the applicant, there are currently no FDA-approved treatments for HRS–1 that have a mechanism of action of selectivity for vasopressin V1 receptors. The applicant also stated that TERLIVAZ® represents a different compound type, vasoconstrictor class, and mechanism of action than those of currently available off-label treatments for HRS–1. The applicant submitted the following table that compares the mechanism of action for TERLIVAZ® to the mechanism of action for existing technologies used off-label to treat HRS–1 including midodrine, octreotide, and norepinephrine.
With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that TERLIVAZ® may be assigned to the same MS–DRG as existing technologies currently used to treat HRS–1. In particular, the applicant stated that cases involving the use of Terlivaz® may map to the three MS–DRGs included in Major Diagnostic Category (MDC) 7 (Diseases & Disorders of the Hepatobiliary System & Pancreas); MS–DRG 441—Disorders of Liver Except Malignancy, Cirrhosis or Alcoholic Hepatitis with CC; MS–DRG 442—Disorders of Liver Except Malignancy, Cirrhosis or Alcoholic Hepatitis with CC; and MS–DRG 443—Disorders of Liver Except Malignancy, Cirrhosis or Alcoholic Hepatitis without CC/MCC. The applicant stated that TERLIVAZ® may be assigned to the same MS–DRG when compared with an existing technology, this does not mean that TERLIVAZ® is not new for the purposes of new technology add-on payments because, according to the applicant, the existing technologies are not specifically indicated for the treatment of HRS–1. The applicant stated that none of the current standard-of-care drugs used to treat HRS–1, namely midodrine, octreotide, and norepinephrine are FDA-approved for the treatment of this disease. The applicant referenced the discussion in the FY 2016 IPPS/LTCH PPS final rule (80 FR 49445) of BLINCYTO®, as an example of another technology that was the only FDA-approved product available on the U.S. market to treat the relevant indication, and stated that CMS agreed that eligible cases involving the BLINCYTO technology would map to a different MS–DRG than cases treated with similar technologies. The applicant also stated that the MS–DRG system does not differentiate between patients with HRS and non-HRS conditions that are assigned to the three MS–DRGs that assign to MS–DRGs included in Major Diagnostic Category (MDC) 7 (Diseases & Disorders of the Hepatobiliary System & Pancreas) and further that the current MS–DRGs do not differentiate between HRS type 1 and type 2. The applicant stated that because of this, both TERLIVAZ® and an existing technology used to treat non-HRS conditions of HRS type 2 may be assigned to MS–DRGs 441, 442, and 443.

With respect to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, according to the applicant, TERLIVAZ® will treat the same type of disease but will not treat the same or similar population when compared to existing technologies currently treating HRS–1 in the U.S. The applicant stated that TERLIVAZ® will offer treatment to a new patient population that is a subset of the larger patient population for which TERLIVAZ® will receive an FDA label, if approved, and that this subset includes patients for which existing technologies offer a lower rate of recovery of renal function compared to TERLIVAZ®. The applicant states that while the FDA label for TERLIVAZ® will not be reserved for a subset of the patient population that has been diagnosed with HRS–1 and has failed to respond to standard-of-care treatment options, it does not logically follow that because of this label, TERLIVAZ® will not offer a treatment option to a new patient population.

Based on the applicant’s statements as summarized above, the applicant believes that TERLIVAZ® is not substantially similar to other currently available therapies and/or technologies and meets the “newness” criterion. We note that while TERLIVAZ® may address an unmet need because it will be the first treatment indicated specifically for the treatment of HRS–1, the applicant’s assertion that TERLIVAZ® involves the treatment of a different patient population on the basis that there is a lower rate of renal function recovery using standard of care treatments does not necessarily support the unmet need for HRS–1 treatment. We are inviting public comments on whether TERLIVAZ® is substantially similar to other technologies and whether TERLIVAZ® meets the newness criterion.

With respect to the cost criterion, the applicant searched the FY 2018 MedPAR dataset for cases reporting the ICD–10–CM code K76.7—Hepatorenal syndrome. The applicant stated that average covered charges were obtained at the provider level and case counts for provider instances with fewer than 11

<table>
<thead>
<tr>
<th>Compound Type</th>
<th>TERLIVAZ</th>
<th>Midodrine767</th>
<th>Octreotide768</th>
<th>Norepinephrine769</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vasoconstrictor class</td>
<td>Vasopressin analogue</td>
<td>a-1 adrenergic agonist</td>
<td>Somatostatin analogue</td>
<td>a-1 adrenergic agonist</td>
</tr>
<tr>
<td>Receptor binding</td>
<td>V1 vasopressin receptor</td>
<td>a1 receptor</td>
<td>Somatostatin receptor</td>
<td>a1, a2 receptors</td>
</tr>
<tr>
<td>Mechanism of action</td>
<td>Selective affinity for vasopressin V1 receptors predominantly located in smooth muscles of arterial vasculature in the splanchnic region. Provides vasoconstrictor and antidiuretic properties to elevate arterial pressure.</td>
<td>Binds to a1 adrenoreceptors on peripheral vascular smooth muscle, promoting smooth muscle contraction.</td>
<td>Used with midodrine to activate a1 adrenergic receptors of the arteriolar and venous vasculature, producing an increase in vascular tone and elevation of blood pressure780</td>
<td>Binds to a1 adrenoreceptors on peripheral vascular smooth muscle, promoting peripheral vasoconstriction.</td>
</tr>
</tbody>
</table>


discharges at the MS-DRG level were redacted and replaced with the number 1. The applicant initially identified 2,592 providers and 35,806 cases. The applicant excluded 315 providers and 1,149 cases that were not listed in the Impact File FY 2021 Proposed Rule, as the average charges for these cases/providers could not be standardized. The applicant further stated that there were initially 255 MS-DRGs in the data set. However, three MS-DRGs were not found in FY 2022 New Technology Thresholds file posted with the FY 2021 IPPS final rule and correction notice, and an additional three MS-DRGs were excluded because providers were not listed in the Impact File FY 2021 Proposed Rule. The exclusion of those 6 MS-DRGs resulted in an additional 6 excluded cases. Thus, the final data set for analysis included 34,651 cases spanning across a total of 249 MS-DRGs.

The applicant then presented six analyses with defined cohorts. The applicant considered the following factors in defining the cohorts:

- The applicant explained that, because HRS is not always the primary or admitting diagnosis in cases where ICD–10–CM code K76.7 is present, and that K76.7 is commonly coded to cases such as sepsis, they included cases where HRS is the primary and/or admitting diagnosis code in cohorts 1, 3, and 5 and cases where HRS can be the primary, the admitting, or any secondary diagnosis in cohorts 2, 4, and 6.

- The applicant stated that it filtered out cases without a 2-day minimum length of inpatient stay. Per the applicant, the ICD–10–CM diagnosis code K76.7 covers type 1 and type 2 HRS. The applicant stated that HRS type 1 and type 2 have clinical differentiators that make HRS–1 the condition requiring greater hospital resource utilization to treat. The applicant stated that, to produce a cost threshold calculation for an indication of HRS–1, HRS–2 cases must be redacted from any inpatient case population used to ensure charge averages are not dampened by lower costs to treat cases not described by an HRS–1 indication. The applicant explained that HRS–1 is diagnosed by the exclusion of other causes of acute kidney injury in cirrhotic patients, and that no response to 2 consecutive days of diuretic withdrawal and volume expansion with albumin is one of the diagnostic criteria in patients with cirrhosis. Accordingly, per the applicant, patients who do not fulfill this criterion within 48 hours cannot be considered HRS–1 cases and were excluded from the analysis.

- The applicant also stated that the clinical presentation of HRS–1 means the more serious cases requiring stabilization will be treated in the ICU and other cases will be treated in the general medical ward. The applicant included cases with an ICU indicator for Cohorts 1 and 2, representing serious cases where the patient needed stabilization procedures and/or conditions needing immediate attention. The applicant stated that these could be conditions related to, caused by, or leading to the HRS diagnosis or having no relationship to HRS other than a concurrent presence. The applicant also included cases without an ICU indicator for cohorts 3 and 4 and included all cases without differentiation in ICU utilization for cohorts 5 and 6.

<table>
<thead>
<tr>
<th>Cohort</th>
<th>Cohort Description</th>
<th>Number of Cases</th>
<th>Number of MS-DRGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ICD-10-CM code - K76.7 primary/admitting, ICU indicator, stays of 2+ days only</td>
<td>759</td>
<td>34</td>
</tr>
<tr>
<td>2</td>
<td>ICD-10-CM code - K76.7 any position, ICU indicator, stays of 2+ days only</td>
<td>8,915</td>
<td>197</td>
</tr>
<tr>
<td>3</td>
<td>ICD-10-CM code - K76.7 primary/admitting, no ICU indicator, stays of 2+ days only</td>
<td>801</td>
<td>38</td>
</tr>
<tr>
<td>4</td>
<td>ICD-10-CM code - K76.7 any position, no ICU indicator, stays of 2+ days only</td>
<td>7,154</td>
<td>210</td>
</tr>
<tr>
<td>5</td>
<td>ICD-10-CM code - K76.7 primary/admitting, stays of 2+ days only</td>
<td>1,526</td>
<td>51</td>
</tr>
<tr>
<td>6</td>
<td>ICD-10-CM code - K76.7 any position, stays of 2+ days only</td>
<td>15,496</td>
<td>249</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>34,651</td>
<td></td>
</tr>
</tbody>
</table>

The applicant then removed the charges for the technology being replaced. For analyses 1 and 2, the applicant removed the estimated cost of generic norepinephrine based on HRS–1 dosing regimens from each case, which was $1,699 (AnalysSource 2018 U.S. Pricing). For analyses 3 and 4, the applicant removed the estimated cost of midodrine plus octreotide based on HRS–1 dosing regimens from each case, which was $3,391 (AnalysSource 2018 U.S. Pricing). For analyses 5 and 6, the applicant removed the estimated cost of generic norepinephrine ($1,699) from ICU cases and the estimated cost of midodrine plus octreotide ($3,391) from non-ICU cases.

Across all analyses, the applicant standardized the charges and applied a 2-year inflation factor of 13.1 percent that the applicant stated was used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges. We note that the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges is 1.13218, which would have increased the inflated charges. The applicant stated that it did not add any charges for and related to the new technology or any charges related to the prior technologies.

In the first analysis, (Cohort 1), the applicant computed a final inflated average case-weighted standardized charge per case of $135,189, which exceeded the average case-weighted threshold amount of $70,629.

In the second analysis, (Cohort 2), the applicant computed a final inflated average case-weighted standardized charge per case of $181,617, which exceeded the average case-weighted threshold amount of $88,445.

In the third analysis, (Cohort 3), the applicant computed a final inflated average case-weighted standardized charge per case of $59,184, which exceeded the average case-weighted threshold amount of $56,994.

In the fourth analysis, (Cohort 4), the applicant computed a final inflated average case-weighted standardized charge per case of $181,617, which exceeded the average case-weighted threshold amount of $88,445.
The primary objective of the study was to confirm the efficacy and safety of TERLIVAZ® versus placebo in the treatment of adult subjects with HRS–1 receiving standard of care albumin therapy. The primary endpoint was the incidence of verified HRS reversal, defined as 2 consecutive serum creatinine values ≤1.5 mg/dL at least 2 hours apart, while on treatment by Day 14 or discharge, whichever came first (on treatment defined as up to 24 hours after the final dose of study drug). In order to be counted in the primary endpoint, patients needed to be alive without renal replacement therapy (RRT) for at least 10 days after achieving verified HRS reversal. RRT was defined as any procedure to replace nonendocrine kidney function and included intermittent hemodialysis, ultrafiltration, continuous hemofiltration and hemodialysis, peritoneal dialysis, and other dialysis and filtration techniques. The secondary endpoints and their definitions are listed in the following table. The statistical analysis plan also specified that the secondary endpoints were to be tested using the Hochberg procedure to control the overall type 1 error rate. A sample size calculation was conducted and found that a sample size of 300 subjects would provide approximately 90% power with a two-sided type 1 error rate of 0.05 with a 2:1 randomization and assuming event rates of verified HRS reversal of approximately 28% and 12.5%.

<table>
<thead>
<tr>
<th>Secondary Endpoint</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incidence of subjects with HRS-1 reversal</td>
<td>Percentage of subjects with a SCr value ≤1.5 mg/dL while on treatment by Day 14 or discharge. SCr values after RRT, transjugular intrahepatic portosystemic shunt (TIPS), liver transplant, or open-label vasopressor use were excluded</td>
</tr>
<tr>
<td>Durability of HRS-1 reversal</td>
<td>Percentage of subjects with HRS reversal without RRT to Day 30</td>
</tr>
<tr>
<td>Incidence of HRS-1 reversal in SIRS (systemic inflammatory response syndrome) subgroup</td>
<td>HRS-1 reversal was defined as percentage of subjects with a SCr value ≤1.5 mg/dL while on treatment by Day 14 or discharge. The SIRS subgroup was identified based on meeting ≥2 of the following criteria: white blood cell count 12,000 cells/µL, heart rate &gt;90 bpm, temperature &gt;38°C or 20/min, and bicarbonate level</td>
</tr>
<tr>
<td>Incidence of verified HRS-1 recurrence without HRS-1 recurrence by Day 30</td>
<td>HRS-1 recurrence was defined as rapidly progressive worsening in renal function to SCr ≥2.25 mg/dL without sustained improvement in renal function at least 48 hours after diuretic withdrawal and beginning of plasma volume expansion with albumin</td>
</tr>
</tbody>
</table>

---


772 Ibid.
The applicant stated that the incidence of verified HRS reversal was 29.1 percent (n=58) in the TERLIVAZ® (treatment) group and 15.8 percent (n=16) in the placebo (control) group (p=0.012). According to the applicant, the incidence of subjects with HRS–1 reversal was 36.2 percent (n=72) in the treatment group and 16.8 percent (n=17) in the control group (p<0.001). The durability of HRS–1 reversal was 31.7 percent (n=63) in the treatment group and 15.8 percent (n=16) in the control group (p=0.003). The incidence of HRS–1 reversal in SIRS subgroup was 33.3 percent (n=28) in the treatment group and 6.3 percent (n=3) in the control group (p<0.001). According to the applicant, the incidence of verified HRS–1 reversal without HRS–1 recurrence by Day 30 was 24.1 percent (n=48) in the treatment group and 15.8 percent (n=16) in the control group (p=0.092). The applicant also claimed that the overall survival up to Day 90 was higher in responders (subjects who achieved verified HRS reversal or HRS reversal while receiving treatment) than in non-responders (p<0.001) in both the treatment and control groups.

The applicant asserted that the study conducted by Arora et al. supports its claims that the use of TERLIVAZ® is associated with a more rapid resolution of the HRS–1 disease process and a reduced rate of mortality compared to norepinephrine. This study was an open-label, randomized controlled trial conducted as a single-center study in India. The study compared a continuous infusion of TERLIVAZ® and albumin to a continuous infusion of norepinephrine and albumin in the management of HRS–1 acute kidney injury (AKI) in patients with a diagnosis of acute on chronic liver failure (ACLF). Patients were randomized to receive either TERLIVAZ® or norepinephrine in a 1:1 ratio.

ACLF is a distinct diagnosis where, because of severe acute hepatic injury, a rapid loss of liver function develops in a patient with previous chronic liver disease. In this study, ACLF was defined as an acute hepatic insult manifesting as jaundice (serum bilirubin ≥5 mg/dL) and coagulopathy (international normalized ratio [INR] ≥1.5) complicated within 4 weeks by ascites and/or encephalopathy in a patient with previously diagnosed or undiagnosed chronic liver disease or cirrhosis. HRS–AKI was defined as ICA–AKI stage 2H when other causes of AKI were excluded and the patient was nonresponsive to volume expansion with intravenous albumin.

A total of 120 patients were randomized and 60 patients were allocated to the intention to treat group for both the TERLIVAZ® and norepinephrine arms. Adverse events requiring discontinuation of the drug were reported in 9 of 60 (15%) patients in the TERLIVAZ® arm compared to 5 of 60 (8.3%) in the norepinephrine arm (P=0.39). These events included diarrhea, abdominal pain, atrial fibrillation, evans syndrome, chest pain in the TERLIVAZ® arm. In the norepinephrine arm, patients experienced the previously mentioned adverse events as well as ventricular premature complex (VPCs) and hypertension. The per protocol analysis included 51 patients in the TERLIVAZ® arm and 55 patients in the norepinephrine arm. A response rate of 56% for TERLIVAZ®, a response rate of 43% for norepinephrine, and a 10% noninferiority margin was assumed. For an alpha level of 5 percent and power of 80 percent, it was determined that 57 patients were needed in each arm.

According to the applicant, the results showed that a higher percentage of patients achieved HRS reversal at day 14 (primary endpoint) in the TERLIVAZ® group compared to the norepinephrine group in both the intention to treat analysis (ITT) and per-protocol analysis (PPA) (ITT 40 percent (n=24) vs. 16.7 percent (n=10); P=0.004; PPA 43.13 percent (n=22) vs. 16.3 percent (n=9); P=0.002). Complete response was defined as return of serum creatinine (SCr) to a value within 0.3 mg/dL of baseline.

In support of its claims that TERLIVAZ® is associated with a more rapid resolution of the HRS–1 disease process and a reduced rate of mortality compared to midodrine and octreotide, the applicant summarized the results of the Cavallin et al. study, which stated that there was a decreased incidence of renal replacement therapy (RRT) after liver transplant in patients treated with TERLIVAZ®.
“Terlipressin plus albumin should be considered as the first-line therapeutic option for the treatment of HRS–AKI.”

In our assessment of the applicant’s claims in support of substantial clinical improvement, we have the following concerns. Regarding the CONFIRM trial, we note that at the time of development of this proposed rule, this study has not been published and we would appreciate access to additional or more robust materials to facilitate further review of the CONFIRM trial results. We note that the proportion of patients with verified HRS reversal without HRS recurrence by Day 30 was numerically greater in the TERLIVAZ® arm, but the difference between groups was not statistically significant (24 percent vs 16 percent, p=0.09). We also note that, though the applicant claimed a reduction in mortality with the use of TERLIVAZ®, the mortality rate at Day 90 was higher in the TERLIVAZ® group vs the placebo group (51 percent vs 44.4 percent). We further note that the applicant states that survival was not defined as a primary or secondary analysis in the CONFIRM trial and that no overall survival benefit was observed in the CONFIRM trial because survival is confounded by multiple co-morbidities in patients with HRS–1. We note that the primary endpoint of the CONFIRM trial used a surrogate endpoint of serum creatinine as an indicator of HRS reversal, and we question whether this correlates to improvements in clinical outcomes such as mortality and time to transplant. With regard to the applicant’s claims regarding a similar incidence of adverse events and serious adverse events between groups in the CONFIRM trial, we note that the results show that the TERLIVAZ® arm had a higher incidence of SAEs up to 30 days post-treatment related to respiratory failure, serious infections such as sepsis and septic shock, GI bleeding, and abdominal pain. Additionally, 61 percent (17/28) of respiratory events in the treatment arm were fatal versus 20% (5/25) in the placebo arm. Regarding the study conducted by Arora et al., we note that this study had an open-label design and included patients with a diagnosis of ACLF as well as HRS–AKI which may have contributed to the differences observed between the TERLIVAZ® arm and the norepinephrine arm in this study. Finally, we note that the results of the Cavallin et al study submitted by the applicant in support of a substantial clinical improvement over midodrine and octreotide show that there was no survival benefit for the TERLIVAZ® group at months one and three.

We welcome public comment on whether TERLIVAZ® meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for TERLIVAZ®.

s. VEKLYR® (remdesivir)

Gilead Sciences, Inc. submitted an application for new technology add-on payments for VEKLYR® (remdesivir) for FY 2022. VEKLYR® is a nucleotide analog that inhibits viral RNA-dependent RNA polymerases, demonstrating activity countering viral pathogens such as severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes coronavirus disease 2019 (COVID-19).

According to the applicant, spread of COVID-19 is presumed largely to occur through respiratory droplets and approximately 80% is predicted to occur by pre- and asymptomatic
individuals. The applicant asserted viral incubation averages 3–7 days and can occur for up to 2 weeks.\textsuperscript{784} According to the applicant, once infected, approximately 81% of COVID–19 patients experience mild disease, 14% experience severe disease, and 5% experience critical disease.\textsuperscript{789} The applicant stated that severity of disease changes with age—approximately 113 in 100,000 people aged 18–49 years are hospitalized, compared to 250 in 100,000 aged 50–64 years and 451 in 100,000 aged 65+.\textsuperscript{790} The applicant asserted that other risk factors for severity include underlying comorbidities but severe illness can occur in otherwise healthy individuals at any age.\textsuperscript{791}

According to the applicant, patients who present to the hospital with evidence of pneumonia may require supplemental oxygen in severe cases, or, those with critical illness may develop hypoxemic respiratory failure, acute respiratory distress syndrome, and multigorgan failure that requires ventilatory support.\textsuperscript{792} The applicant cited one study of 2,482 hospitalized COVID–19 patients, in which 32% of patients were admitted to the intensive care unit (ICU) for a median stay of 6 days and 19% received invasive mechanical ventilation, 53% of whom died in the hospital.\textsuperscript{793}

According to the applicant, VEKLURY\textsuperscript{®} received FDA approval for use in the inpatient setting on October 22, 2020 via Priority Review and had received Fast Track designation.\textsuperscript{794} Under the New Drug Application (NDA) FDA approval, VEKLURY\textsuperscript{®} is indicated for adults and pediatric patients (12 years of age and older and weighing at least 40 kg) for the treatment of COVID–19 requiring hospitalization.\textsuperscript{795,796} Prior to its approval, on May 1, 2020, VEKLURY\textsuperscript{®} received an Emergency Use Authorization (EUA) from FDA for the treatment of suspected or laboratory-confirmed COVID–19 in adults and children hospitalized with severe disease.\textsuperscript{797} VEKLURY\textsuperscript{®} continues to have an EUA for pediatric patients (12 years of age or younger weighing at least 3.5 kg or weighing 3.5 kg to less than 40 kg) for emergency use to treat suspected or laboratory-confirmed COVID–19 in hospitalized pediatric patients.\textsuperscript{798,799}

According to the applicant, VEKLURY\textsuperscript{®} has been available under the EUA since it was first issued in May 2020 for emergency use in the inpatient setting for patients with COVID–19. The applicant asserted that between July 1, 2020 and September 30, 2020, it entered into an agreement with the U.S. Government to allocate and distribute commercially-available VEKLURY\textsuperscript{®} across the country.\textsuperscript{800} The applicant stated that under this agreement, the first sale of VEKLURY\textsuperscript{®} was completed on July 10, 2020. The applicant stated that they transitioned to a more traditional, unallocated model of distribution as of October 1, 2020. According to the applicant, as of August 1, 2020, VEKLURY\textsuperscript{®} is uniquely identified by ICD–10–PCS codes WX033E5 (Introduction of remdesivir anti-infective into peripheral vein, percutaneous approach, new technology group 5) and XW043E5 (Introduction of remdesivir anti-infective into central vein, percutaneous approach, new technology group 5). Prior to August 1, 2020, the generic, non-COVID–19 ICD–10–PCS codes 3E033GC (Introduction of other therapeutic substance into peripheral ven, percutaneous approach) and 3E043GC (Introduction of other therapeutic substance into central ven, percutaneous approach) could be reported for the use of VEKLURY\textsuperscript{®}.

As discussed previously, if a technology meets all three of the substantial similarity criteria, it would be considered substantially similar to an existing technology and would not be considered “new” for purposes of new technology add-on payments.

With regard to the first criterion, whether a product uses the same or a similar mechanism of action to achieve a therapeutic outcome, the applicant asserted VEKLURY\textsuperscript{®} is a SARS–CoV–2 nucleotide analog RNA polymerase inhibitor, and that there are no other antiretroviral therapies that have received an EUA or an approval from FDA to treat COVID–19. The applicant stated, however, that convalescent plasma has also received an EUA for the treatment of hospitalized patients with COVID–19.\textsuperscript{801,802} According to the applicant, convalescent plasma is collected from individuals who have been infected with SARS–CoV–2 and have developed antibodies to the virus. The applicant stated that plasma is transfused into infected patients with the expectation that the antibodies present will neutralize the virus.\textsuperscript{803} The applicant asserted this mechanism of action is different from VEKLURY\textsuperscript{®} which works as a nucleotide analog to inhibit viral replication. We note that, as a result of their evaluation of the most recent information available, on February 4, 2021 FDA reissued the EUA for convalescent plasma. The EUA authorizes only the use of high titer COVID–19 convalescent plasma, for the treatment of hospitalized patients early in the course of disease. The use of low titer COVID–19 convalescent plasma is not authorized under the EUA.\textsuperscript{804}
We note that another inpatient treatment for COVID–19, Olumiant® (baricitinib), in combination with VEKLURY®, has received an EUA. Specifically, the EUA for Olumiant®, which should be administered in combination with VEKLURY®, is for the treatment of COVID–19 in certain hospitalized patients requiring supplemental oxygen, invasive mechanical ventilation, or extracorporeal membrane oxygenation (ECMO). Olumiant® is a Janus kinase (JAK) inhibitor with prior FDA approval for another indication—the treatment of adult patients with moderately to severely active rheumatoid arthritis who have had inadequate response to one or more tumor necrosis factor (TNF) antagonist therapies.

According to the applicant, because of the rapidly evolving nature of the COVID–19 pandemic, there is not a current standard of care used across hospitals in the United States. With regard to the second criterion, whether the technology is assigned to the same or a different MS–DRG, the applicant asserted that as there are no other antiretrovirals for the treatment of patients with COVID–19, VEKLURY® could not be assigned to the same MS–DRG as existing technologies.

With regard to the third criterion, whether the new use of the technology involves the treatment of the same or similar type of disease and the same or similar patient population, the applicant asserted VEKLURY® represents a novel treatment option for patients with COVID–19 who are hospitalized. The applicant stated COVID–19 is a completely separate disease from those caused by other coronaviruses. The applicant asserted severe acute respiratory syndrome (SARS) is caused by the coronavirus SARS–CoV and was first reported in 2003. The applicant stated SARS symptoms were similar to COVID–19 and included high fever, body aches, and mild respiratory symptoms but no treatments specific to SARS–CoV–2 but lacks treatment options. Based on the applicant’s statements as summarized previously, the applicant believes that VEKLURY® is not substantially similar to other currently available therapies and/or technologies and meets the “newness” criterion. We note that although there may not be other antiretrovirals available for the treatment of COVID–19, cases involving VEKLURY® may map to the same MS–DRGs as other treatments for COVID–19.

In the FY 2009 IPPS final rule (73 FR 48561 through 48563), we revised our regulations at § 412.87 to codify our longstanding practice of how CMS evaluates the eligibility criteria for new medical service or technology add-on payment applications. We stated that new technologies that have not received FDA approval do not meet the newness criterion. In addition, we stated we do not believe it is appropriate for CMS to determine whether a medical service or technology represents a substantial clinical improvement over existing technologies before the FDA makes a determination as to whether the medical service or technology is safe and effective. For these reasons, we first determine whether a new technology meets the newness criterion, and only if so, do we make a determination as to whether the technology meets the cost threshold and represents a substantial clinical improvement over existing medical services or technologies. We also finalized at 42 CFR 412.87(c) (subsequently redesignated as 412.87(e)) that all applicants for new technology add-on payments must have FDA approval or clearance by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered.

In the FY 2021 IPPS/LTCH PPS final rule, to more precisely describe the various types of FDA approvals, clearances, licenses, and classifications that we consider under our new technology add-on payment policy, we finalized a technical clarification to § 412.87(e)(2) to indicate that new technologies must receive FDA marketing authorization (for example, pre-market approval (PMA); 510(k) clearance; the granting of a De Novo classification request; approval of a New Drug Application (NDA); or Biologics License Application (BLA) licensure) by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. As noted in the FY 2021 IPPS/LTCH PPS final rule, this technical clarification did not change our longstanding policy for evaluating whether a technology is eligible for new technology add-on payment for a given fiscal year, and we continue to consider FDA marketing authorization as representing that a product has received FDA approval or clearance for purposes of eligibility for the new technology add-on payment under § 412.87(e)(2) (85 FR 58742).

An EUA by the FDA allows a product to be used for emergency use, but under our longstanding policy, we believe it would not be considered an FDA marketing authorization for the purpose of new technology add-on payments, as a product that is available only through an EUA is not considered to have FDA approval or clearance. Therefore, under the current regulations at 42 CFR 412.87(e)(2) and consistent with our longstanding policy of not considering eligibility for new technology add-on payments prior to a product receiving FDA approval or clearance, we believe a product available only through an EUA would not be eligible for new technology add-on payments. Therefore, cases involving hospitalized pediatric patients (12 years of age or younger weighing at least 3.5 kg or weighing 3.5 kg to less than 40 kgs) receiving VEKLURY® for emergency use to treat suspected or laboratory-confirmed COVID–19 would not be eligible for new technology add-on payment, if VEKLURY® is approved for new technology add-on payment for the patient population indicated in its FDA approval.

We refer the reader to our comment solicitation in section II.F.7 of the preamble of this proposed rule regarding how data reflecting the costs of a product with an EUA, which may become available upon authorization of the product for emergency use (but prior to FDA approval or clearance), should be considered for purposes of the 2-year to 3-year period of newness for new technology add-on payments for a product with or expected to receive an EUA, including whether the newness period should begin with the date of the EUA. We also invite public comments on any implications of the distribution agreement described previously with regard to the market availability of VEKLURY®.
We also refer the reader to our proposal in section II.F.8 of the preamble of this proposed rule to extend the new COVID–19 treatments add-on payment (NCTAP) through the end of the fiscal year in which the PHE ends for certain products and discontinue NCTAP for products approved for new technology add-on payments in FY 2022.

We invite public comments on whether VEKLURY® meets the newness criterion.

With regard to the cost criterion, the applicant used the FY 2019 MedPAR LDS and the February through June 2020 Electronic Data Interchange (EDI) transaction data to identify applicable cases. The applicant used the FY 2022 thresholds and the FY 2019 NPRM IPPS/LTCH impact file to standardize charges. As COVID–19 is an emergent disease, the applicant asserted that FY 2019 MedPAR claims may not be reflective of actual cases. Accordingly, and as summarized below, the applicant identified the FY 2019 MedPAR cases as proxy COVID–19 cases in its cost analysis. To supplement and confirm its MedPAR findings, the applicant used EDI data that includes actual COVID–19 cases from February through June 2020 to capture what the applicant described as true COVID–19 MS–DRG mapping and charges.

For the MedPAR LDS cases, the applicant used B97.29 with a manifestation code (J12.89 or J20.8 or J40 or J22 or J98.8 or J80). According to the applicant, this is based on the CDC guidance which specifies use of B97.29 with additional coding to identify the manifestation prior to the April 1, 2020 COVID–19 code. The applicant developed 3 sensitivity scenarios to further differentiate the MedPAR cases; Scenario 1: All Proxy COVID–19, Scenario 2: Proxy COVID–19 without ventilation, and Scenario 3: Proxy COVID19 with ventilation. Next, the applicant analyzed linked 837 and 835 inpatient EDI transaction sets that were processed February through June of 2020. The 837 and 835 transaction sets are updated daily and stored in the Inovalon provider research datasets, accounting for approximately 5–7% of the total Medicare FFS volume nationally on average. For cases prior to April 1, the applicant used the same coding as the MedPAR analysis. For claims on or after April 1, 2020, the applicant used the actual COVID–19 code U07.1. The applicant then identified cases using the 3 sensitivity scenarios; Scenario 4: All COVID–19, Scenario 5: COVID–19 without ventilation, and Scenario 6: COVID–19 with ventilation.

The claim search conducted by the applicant identified 1,726 cases mapping to 25 MS–DRGs for scenario one, 274 cases mapping to eight MS–DRGs for scenario two, 1,393 cases mapping to 21 MS–DRGs for scenario three, 3,826 cases mapping to 21 MS–DRGs for scenario four, 859 cases mapping to seven MS–DRGs for scenario five, and 2,917 cases mapping to 14 MS–DRGs for scenario six. The MS–DRGs identified in each scenario are listed in the following tables.
<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis without MV &gt;96 Hours with MCC</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy with MCC</td>
</tr>
<tr>
<td>202</td>
<td>Bronchitis &amp; Asthma with CC/MCC</td>
</tr>
<tr>
<td>189</td>
<td>Pulmonary Edema &amp; Respiratory Failure</td>
</tr>
<tr>
<td>190</td>
<td>Chronic Obstructive Pulmonary Disease with MCC</td>
</tr>
<tr>
<td>291</td>
<td>Heart Failure &amp; Shock with MCC or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>194</td>
<td>Simple Pneumonia &amp; Pleurisy with CC</td>
</tr>
<tr>
<td>191</td>
<td>Chronic Obstructive Pulmonary Disease with CC</td>
</tr>
<tr>
<td>208</td>
<td>Respiratory System Diagnosis with Ventilator Support &lt;=96 Hours</td>
</tr>
<tr>
<td>870</td>
<td>Septicemia or Severe Sepsis with MV &gt;96 Hours or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>177</td>
<td>Respiratory Infections &amp; Inflammations with MCC</td>
</tr>
<tr>
<td>872</td>
<td>Septicemia or Severe Sepsis without MV &gt;96 Hours without MCC</td>
</tr>
<tr>
<td>853</td>
<td>Infectious &amp; Parasitic Diseases with O.R. Procedure with MCC</td>
</tr>
<tr>
<td>195</td>
<td>Simple Pneumonia &amp; Pleurisy without CC/MCC</td>
</tr>
<tr>
<td>207</td>
<td>Respiratory System Diagnosis with Ventilator Support &gt;96 Hours or Peripher</td>
</tr>
<tr>
<td>166</td>
<td>Other Resp System O.R. Procedures with MCC</td>
</tr>
<tr>
<td>203</td>
<td>Bronchitis &amp; Asthma without CC/MCC</td>
</tr>
<tr>
<td>205</td>
<td>Other Respiratory System Diagnoses with MCC</td>
</tr>
<tr>
<td>682</td>
<td>Renal Failure with MCC</td>
</tr>
<tr>
<td>308</td>
<td>Cardiac Arrhythmia &amp; Conduction Disorders with MCC</td>
</tr>
<tr>
<td>192</td>
<td>Chronic Obstructive Pulmonary Disease without CC/MCC</td>
</tr>
<tr>
<td>292</td>
<td>Heart Failure &amp; Shock with CC</td>
</tr>
<tr>
<td>178</td>
<td>Respiratory Infections &amp; Inflammations with CC</td>
</tr>
<tr>
<td>698</td>
<td>Other Kidney &amp; Urinary Tract Diagnoses with MCC</td>
</tr>
<tr>
<td>280</td>
<td>Acute Myocardial Infarction, Discharged Alive with MCC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis without MV &gt;96 Hours w MCC</td>
</tr>
<tr>
<td>208</td>
<td>Respiratory System Diagnosis with Ventilator Support &lt;=96 Hours</td>
</tr>
<tr>
<td>189</td>
<td>Pulmonary Edema &amp; Respiratory Failure</td>
</tr>
<tr>
<td>870</td>
<td>Septicemia or Severe Sepsis with MV &gt;96 Hours or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>291</td>
<td>Heart Failure &amp; Shock with MCC or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>207</td>
<td>Respiratory System Diagnosis with Ventilator Support &gt;96 Hours or Peripher</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy with MCC</td>
</tr>
<tr>
<td>190</td>
<td>Chronic Obstructive Pulmonary Disease with MCC</td>
</tr>
</tbody>
</table>
### List of Identified MS-DRGs with Volumes Higher Than 10 Cases for Scenario 3: Proxy COVID-19 without Ventilation

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis without Mv &gt;96 Hours w MCC</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy w MCC</td>
</tr>
<tr>
<td>202</td>
<td>Bronchitis &amp; Asthma with CC/MCC</td>
</tr>
<tr>
<td>190</td>
<td>Chronic Obstructive Pulmonary Disease with MCC</td>
</tr>
<tr>
<td>194</td>
<td>Simple Pneumonia &amp; Pleurisy with CC</td>
</tr>
<tr>
<td>189</td>
<td>Pulmonary Edema &amp; Respiratory Failure</td>
</tr>
<tr>
<td>291</td>
<td>Heart Failure &amp; Shock with MCC or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>191</td>
<td>Chronic Obstructive Pulmonary Disease with CC</td>
</tr>
<tr>
<td>872</td>
<td>Septicemia or Severe Sepsis without Mv &gt;96 Hours without MCC</td>
</tr>
<tr>
<td>177</td>
<td>Respiratory Infections &amp; Inflammations with MCC</td>
</tr>
<tr>
<td>195</td>
<td>Simple Pneumonia &amp; Pleurisy without CC/MCC</td>
</tr>
<tr>
<td>203</td>
<td>Bronchitis &amp; Asthma without CC/MCC</td>
</tr>
<tr>
<td>853</td>
<td>Infectious &amp; Parasitic Diseases with O.R. Procedure with MCC</td>
</tr>
<tr>
<td>205</td>
<td>Other Respiratory System Diagnoses with MCC</td>
</tr>
<tr>
<td>178</td>
<td>Respiratory Infections &amp; Inflammations with CC</td>
</tr>
<tr>
<td>292</td>
<td>Heart Failure &amp; Shock with CC</td>
</tr>
<tr>
<td>192</td>
<td>Chronic Obstructive Pulmonary Disease without CC/MCC</td>
</tr>
<tr>
<td>280</td>
<td>Acute Myocardial Infarction, Discharged Alive with MCC</td>
</tr>
<tr>
<td>166</td>
<td>Other Resp System O.R. Procedures with MCC</td>
</tr>
<tr>
<td>682</td>
<td>Renal Failure with MCC</td>
</tr>
<tr>
<td>308</td>
<td>Cardiac Arrhythmia &amp; Conduction Disorders with MCC</td>
</tr>
</tbody>
</table>

### List of Identified MS-DRGs with Volumes Higher Than 10 Cases for Scenario 4: All COVID-19

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>177</td>
<td>Respiratory Infections &amp; Inflammations with MCC</td>
</tr>
<tr>
<td>871</td>
<td>Septicemia or Severe Sepsis without Mv &gt;96 Hours with MCC</td>
</tr>
<tr>
<td>870</td>
<td>Septicemia or Severe Sepsis with Mv &gt;96 Hours or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>207</td>
<td>Respiratory System Diagnosis with Ventilator Support &gt;96 Hours or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>178</td>
<td>Respiratory Infections &amp; Inflammations with CC</td>
</tr>
<tr>
<td>208</td>
<td>Respiratory System Diagnosis with Ventilator Support &lt;=96 Hours</td>
</tr>
<tr>
<td>193</td>
<td>Simple Pneumonia &amp; Pleurisy with MCC</td>
</tr>
<tr>
<td>179</td>
<td>Respiratory Infections and Inflammations without CC/MCC</td>
</tr>
<tr>
<td>004</td>
<td>Tracheostomy with Mv &gt;96 Hours or Principal Diagnosis Except Face, Mouth and Neck without Major O.R.</td>
</tr>
<tr>
<td>194</td>
<td>Simple Pneumonia &amp; Pleurisy without CC/MCC</td>
</tr>
<tr>
<td>853</td>
<td>Infectious &amp; Parasitic Diseases with O.R. Procedure with MCC</td>
</tr>
</tbody>
</table>

### List of Identified MS-DRGs with Volumes Higher Than 10 Cases for Scenario 4: All COVID-19

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>377</td>
<td>Gastrointestinal Hemorrhage with MCC</td>
</tr>
<tr>
<td>640</td>
<td>Miscellaneous Disorders of Nutrition, Metabolism, Fluids and Electrolytes with MCC</td>
</tr>
<tr>
<td>682</td>
<td>Renal Failure with MCC</td>
</tr>
<tr>
<td>981</td>
<td>Extensive O.R. Procedure Unrelated to Principal Diagnosis with MCC</td>
</tr>
<tr>
<td>291</td>
<td>Heart Failure &amp; Shock with MCC or Peripheral Extracorporeal Membrane Oxygenation</td>
</tr>
<tr>
<td>480</td>
<td>Hip and Femur Procedures Except Major Joint with MCC</td>
</tr>
<tr>
<td>637</td>
<td>Diabetes with MCC</td>
</tr>
<tr>
<td>689</td>
<td>Kidney and Urinary Tract Infections with MCC</td>
</tr>
<tr>
<td>195</td>
<td>Simple Pneumonia &amp; Pleurisy without CC/MCC</td>
</tr>
<tr>
<td>698</td>
<td>Other Kidney &amp; Urinary Tract Diagnoses with MCC</td>
</tr>
</tbody>
</table>
The applicant determined an average unstandardized case weighted charge per case of $56,643 for Scenario 1; $82,733 for Scenario 2; $51,100 for Scenario 3; $75,891 for Scenario 4; $131,004 for Scenario 5; and $59,393 for Scenario 6.

The applicant stated that 33 percent of the length of stay charges from relevant cases were removed as charges for and related to the prior technologies in order to estimate the potential decrease in length of stay achieved by use of VEKLURY®. The applicant asserted that this offset was determined based on findings from the Adaptive COVID–19 Treatment Trial (ACTT–1), which found those treated with VEKLURY® had a median recovery time of 10 days, as compared with 15 days for those who received placebo.

After calculating the average standardized charge per case for all scenarios, the applicant calculated the standard charge per case for each MS–DRG. Next, for the analysis involving MedPAR, the applicant indicated that it applied the 2-year inflation factor used in the FY 2021 IPPS/LTCH PPS final rule to calculate outlier threshold charges of 13.1 percent. We note that the inflation factor used in the FY 2021 IPPS/LTCH PPS final rule was 13.2 percent (1.13218) (85 FR 59039), which would have increased the inflated charges. For the analysis involving the EDI, the applicant used an inflation factor of 1.06353 or 6.4%, which it indicated was the same inflation factor used in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59039). We note that the inflation factor used in the FY 2021 IPPS/LTCH PPS final rule was 6.4% (1.06404) (85 FR 59039), but this does not affect the cost analysis. To calculate the charges for the technology, the applicant used the national average CCR for the Drugs cost center of 0.187 from the FY 2021 Final IPPS rule. Lastly, the applicant calculated the case-weighted threshold amount and the final inflated average case-weighted standardized charge per case for each scenario.

The applicant stated that for Scenario 1, the final inflated average case-weighted standardized charge per case of $69,741 exceeded the average case-weighted threshold amount of $56,643 by $13,098. For Scenario 2, the final inflated average case-weighted standardized charge per case of $107,860 exceeded the average case-weighted threshold amount of $82,733 by $25,127. For Scenario 3, the final inflated average case-weighted standardized charge per case of $60,749 exceeded the average case-weighted threshold amount of $51,100 by $9,649. For Scenario 4, the final inflated average case-weighted standardized charge per case of $110,553 exceeded the average case-weighted threshold amount of $75,891 by $34,662. For Scenario 5, the final inflated average case-weighted standardized charge per case of $203,406 exceeded the average case-weighted threshold amount of $131,004 by $72,402. For Scenario 6, the final inflated average case-weighted standardized charge per case of $63,915
exceeded the average case-weighted threshold amount of $59,393 by $4,522.

The applicant stated that because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, VEKLURY® meets the cost criterion.

We invite public comment on whether VEKLURY® meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that VEKLURY® represents a substantial clinical improvement over existing technologies because it shortens time to recovery in patients hospitalized with severe COVID–19. The applicant also asserted that it represents a substantial clinical improvement because the technology results in improved clinical status and a trend toward reduced mortality, with the most significant reduction seen in a post-hoc analysis of patients with COVID–19 on low-flow oxygen treated with VEKLURY®. The applicant further asserted VEKLURY® results in better clinical status for patients hospitalized with moderate COVID–19.

As stated above, the applicant asserted that VEKLURY® represents a substantial clinical improvement over existing technologies because it shortens time to recovery in patients hospitalized with severe COVID–19. To support this claim, the applicant referenced published, peer-reviewed results from the ACTT–1 study, a multi-center, multi-country adaptive, double-blinded, placebo-controlled, randomized clinical trial. Patients with confirmed COVID–19 and evidence of lung involvement were randomly assigned to receive either VEKLURY® (n=532; 200 mg loading dose on day 1, followed by 100 mg daily for up to 9 additional days) or placebo (n=516) for up to 10 days. Patients could receive other treatments if a participating hospital had a written policy or guideline for treating COVID–19. The study was conducted in 60 trial sites across the world with a majority of trial sites within the United States (45 trial sites plus 13 sub-sites within the United States). The other sites were in Denmark (8), the United Kingdom (5), Greece (4), Germany (3), Korea (2), Mexico (2), Spain (2), Japan (1), and Singapore (1). The primary outcome measure of the ACTT–1 study was time to recovery, defined as the first day, from the time of enrollment into the study, that patients exhibited improvement in conditions based on hospitalization activity limitation, oxygen requirement, and medical care requirement.809

According to the applicant, as part of the trial design, an interim analysis was planned to determine if the study should be stopped early for futility, efficacy, or safety, if there was clear and substantial evidence of a treatment difference between study drug and placebo. An independent data and safety monitoring board met to review interim data and determined VEKLURY® was better than a placebo for the primary endpoint, time to recovery.810 The applicant stated those treated with VEKLURY® had a median recovery time of 10 days, as compared with 15 days for those who received placebo (rate ratio for recovery, 1.29; 95% confidence interval [CI], 1.12 to 1.49; P<0.001), and the number of serious adverse events was lower in the VEKLURY® treated group.811

As stated previously, the applicant asserted VEKLURY® represents a substantial clinical improvement over existing technologies because use of VEKLURY® results in improved clinical status and reduced mortality in patients with COVID–19 on low-flow oxygen. According to the applicant, the pivotal ACTT–1 study showed an overall trend toward reduction in mortality with the most significant reduction observed in a post-hoc analysis of patients on low-flow oxygen treated with VEKLURY®. The overall mortality effect was not statistically significant. The applicant stated those treated with VEKLURY® continued to receive oxygen for fewer days (median, 13 days vs. 21 days) and the incidence of new oxygen use was lower in the VEKLURY® group (incidence, 36%; 95% CI, 26% to 47%) compared with the placebo group (incidence, 44%; 95% CI, 33% to 57%). In the post-hoc analysis, those receiving low-flow supplemental oxygen (that is, not those receiving noninvasive ventilation or high-flow oxygen, nor those receiving invasive mechanical ventilation or ECMO) treated with VEKLURY® had the largest reduction in mortality compared to the same cohort receiving the placebo (hazard ratio, 0.30; 95% CI, 0.14 to 0.64).812

As stated previously, the applicant asserted VEKLURY® results in better clinical status for patients hospitalized with moderate COVID–19. To support this claim, the applicant referenced published, peer-reviewed results from an open label, placebo controlled, randomized clinical trial. Patients with moderately severe COVID–19 (pulmonary infiltrates on imaging but oxygen saturation >94 percent on room air) were randomly assigned to receive either VEKLURY® plus continued standard of care for 10 days (n=197), VEKLURY® plus continued standard of care for 5 days (n=199), or continued standard of care (n=200). Standard of care could include use of concomitant medications such as steroids, hydroxychloroquine/chloroquine, lopinavir-ritonavir, tocilizumab, and azithromycin. The median time to start VEKLURY® treatment was 8 days after start of symptoms. The median length of treatment in the 10-day group was actually 6 days. Patients who improved could be discharged from the hospital before completing their assigned course of treatment. The study was conducted in 105 trial sites in the United States, Europe, and Asia. The primary end point was assessment of clinical status on day 11 after initiation of treatment. Clinical status was assessed on a 7-point ordinal scale ranging from death (category 1) to discharged (category 7).813

According to the applicant, on day 11, patients with moderate COVID–19 treated with VEKLURY® for 5 days had a better clinical status compared with the standard of care (odds ratio 1.65; 95% CI, 1.09 to 2.48, P=0.02). The applicant stated the difference was not statistically significant between those treated with VEKLURY® for 10 days compared with the standard of care (P=0.18 by Wilcoxon rank sum test; the proportional odds assumption was not met for this comparison). The applicant asserted that post hoc analyses demonstrated improved clinical status in both the 5- and 10-day treated cohorts at 14 days (P=.03 for both groups). The applicant stated there were no significant differences in adverse events for those treated with Veklury for 5 days.814

We note that the articles submitted by the applicant in support of substantial

810 Ibid.
812 Ibid.
clinical improvement used study designs that may be subject to bias, such as the adaptive and open label design. The ACTT–1 study included a prespecified interim analysis as part of its adaptive design but no changes were made to the placebo arm. We are unclear whether this may suggest that VEKLURY® did not demonstrate superiority over the control. We also note the ACTT–1 study showed considerable differences between geographic regions in median time to recovery for patients assigned to VEKLURY® compared to those assigned to placebo. For example, for the patient population studied at U.S. sites, the median time to recovery in the VEKLURY® group (n=310) vs. the placebo group (n=271) was 11 days vs. 16 days, respectively, whereas at non-US sites, patients treated with VEKLURY® (n=89) vs. placebo (n=81) experienced a median time to recovery of 8 vs. 12 days, respectively.815

Furthermore, the ACTT–1 study allowed other simultaneous treatments based on individual hospital policies or guidelines, which may have potentially confounded the results of the trial. We are inviting public comments on whether VEKLURY® meets the substantial clinical improvement criterion.

In this section, we summarize and respond to written public comments received in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for VEKLURY®.

Comment: The applicant responded to questions elicited by its presentation at the New Technology Town Hall Meeting held in December 2020.

First, the applicant was asked to provide information on adverse events and readmissions specifically in patients over 65 years of age with comorbidities. The applicant stated that in the pivotal ACTT–1 study, the incidence of overall adverse events was similar among participants 65 years of age in both the VEKLURY® and placebo groups (VEKLURY® 65.6%; placebo: 69.7%). The applicant asserted that reported clinical experience has not identified differences in responses between patients over 65 years old and patients under 65 years old and no dosage adjustment is required in patients over the age of 65 years. The applicant stated the NDA for VEKLURY® notes that “appropriate caution should be exercised in the administration of Veklury and monitoring of elderly patients, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.” 817 According to the applicant, subanalyses of readmission rates among participants who were at least 65 years of age with comorbidities have not been conducted because the overall rate of readmission is too low for any subanalyses to be meaningful. The applicant stated that in the ACTT–1 study overall, readmittance was reported in 26 participants (5%) in the VEKLURY® group and in 15 participants (3%) in the placebo group.

Second, the applicant was asked to comment on findings of the World Health Organization (WHO)-sponsored SOLIDARITY trial. According to the applicant, the SOLIDARITY trial is an ongoing, multi-center, open-label global trial that was designed to (1) provide access to treatments that the WHO expert groups recommended for mortality studies and (2) collect in-hospital mortality data from a large number of participants without posing a significant burden on overstressed healthcare systems. The applicant stated that the trial prioritizes broad access to investigational treatments, particularly in countries where ongoing trials of these treatments were not available, resulting in significant heterogeneity in trial adoption, implementation, controls, and patient populations. According to the applicant, interim results from the WHO study were published in the New England Journal of Medicine (NEJM) on December 2, 2020.818 The applicant stated that between March 22, 2020 and October 4, 2020, 11,330 adult participants were enrolled at 405 hospitals in 30 countries with vastly different healthcare systems. Of these, 2,743 participants were treated with VEKLURY® and 2,708 were designated as the VEKLURY® control group (received local standard of care only without placebo). The primary endpoint of mortality at Day 28 was 12.5% in the VEKLURY® group and 12.7% in the standard of care group (Kaplan-Meier rate ratio: 0.95 [95% CI: 0.81 to 1.11; p=0.50]). The authors also reported progression to time to discharge as secondary endpoints. At the time of the interim analysis, 11.9% in the VEKLURY® group and 11.5% in the standard of care group had progressed to mechanical ventilation and there were no differences between the VEKLURY® and standard of care groups in time to discharge. None of the three drugs evaluated definitively reduced mortality (overall or in any subgroup), initiation of ventilation, or duration of hospitalization.

The applicant stated concerns that the data from WHO’s open-label global trial has limitations in light of the trial design. According to the applicant, the variations in the clinical settings of some countries may result in heterogeneity in local standards of care, access to earlier care, or access to mechanical ventilation, which could account for the high observed mortality rate in ventilated patients in SOLIDARITY. Additionally, the applicant stated that lack of detail on the level of oxygen support (low versus high), duration of symptom onset prior to randomization, and the number of VEKLURY® doses administered precludes subanalyses that could elucidate subpopulations who derived benefit from VEKLURY® treatment. Consequently, according to the applicant, it is unclear what conclusive findings can be drawn from the study results at this time.

The applicant stated that according to a perspective piece by Rubin, et al., the FDA approval for VEKLURY® was based on robust evidence from three pivotal studies, including the randomized, double-blind, placebo-controlled ACTT–1 study. The applicant stated that in the opinion of Rubin, et al., the results of SOLIDARITY were not inconsistent with the results of ACTT–1 and any apparent inconsistencies arose from differences in the designs and purposes of the studies. The applicant asserted that the authors of the perspective piece stated that the effect of VEKLURY® appears to be on the course of hospitalization rather than on mortality.819

According to the applicant, an editorial by Harrington, et al. indicated that the authors consider it likely that the estimated treatment effects on mortality that were observed in SOLIDARITY are largely accurate given the size of the SOLIDARITY study; however, aspects of the study design that allowed for the rapid execution of the study undermine the ability of

817 VEKLURY® NDA approval [re-issued]: https://www.fda.gov/media/143108/download.
study to evaluate more subtle endpoints, such as time to recovery.\textsuperscript{820}

The applicant noted that treatment guidelines from the US National Institute of Health and the Infectious Disease Society of America, which have been updated since publication of the interim data from the SOLIDARITY study, continue to recommend treatment with VEKLURY\textsuperscript{®} in hospitalized patients who require supplemental oxygen. Further, the applicant asserted, these efficacy and safety data have supported regulatory approvals or temporary authorizations to treat COVID–19 in approximately 50 countries worldwide.

Third, the applicant was asked to provide more information on the evidence showing there was a trend towards lower mortality, notably in patients who received low flow oxygen. The applicant stated that in the overall ACTT–1 population, there was a numerical trend toward lower mortality in the VEKLURY\textsuperscript{®} group (11.4%) compared to the placebo group (15.2%), which did not reach statistical significance (p=0.07).\textsuperscript{823} The applicant asserted that a post-hoc analysis of participants receiving low-flow supplemental oxygen (baseline ordinal scale score of 5), revealed that VEKLURY\textsuperscript{®} reduced mortality by 70% compared with placebo (4.0% vs. 12.7%; hazard ratio: 0.30 [95% CI: 0.14 to 0.64]).

Lastly, the applicant was asked to provide more information to justify the claim that all subgroups consistently improved with VEKLURY\textsuperscript{®}, given that Medicare patients are older and frequently have co-morbidities. According to the applicant, across the clinical spectrum, hospitalized patients with COVID–19 receiving VEKLURY\textsuperscript{®} recovered 5 days faster, on average, than those receiving placebo (10 days vs. 15 days; rate ratio: 1.29; 95% CI: 1.12–1.49; p<0.001), representing an increased recovery rate of 29%.\textsuperscript{824} The applicant stated that this clinically meaningful benefit is observed across subgroups, including among participants at least 65 years of age.

\textbf{Response:} We appreciate the applicant’s responses to questions asked at the New Technology Town Hall Meeting and will take this information into consideration when deciding whether to approve new technology add-on payments for VEKLURY\textsuperscript{®}.


\textsuperscript{821} Ibid.


\textsuperscript{825} Ibid.


\textsuperscript{829} The applicant stated that the Veterans Lung Cancer Study Group used a two-stage system for describing SCLC, with a limited-stage (30% of cases) which is confined to a smaller portion of the body, and an extensive-stage (70% of cases) where the tumor was widespread.\textsuperscript{830,831} Many patients with SCLC have substantial comorbidities that may affect performance status and treatment options.\textsuperscript{832} A retrospective review analysis of Extensive-stage SCLC (ES–SCLC) patients found that when compared to patients at diagnosis, patients receiving second-line therapy were more likely to have congestive heart failure (67% vs 49%), thromboembolism (9% vs 2%), and depression (11% vs 7%).\textsuperscript{833} Further, these patients receiving second-line therapy were more likely to have infectious disease (57% vs 43%), electrolyte disorders (50% vs 22%), anemia (45% vs 19%), neutropenia (17% vs <0.2%), thrombocytopenia (12% vs 2%), and diarrhea (7% vs 3%) compared to the incidence of these comorbidities at diagnosis of ES–SCLC.\textsuperscript{834}

According to the applicant, the standard of care for first-line chemotherapy for both limited-stage SCLC and ES–SCLC is platinum doublet and, in the case of ES–SCLC, platinum doublet in combination with a checkpoint inhibitor. SCLC is sensitive to platinum-based chemotherapy in the first-line setting but almost universally relapses, requiring subsequent lines of therapy.\textsuperscript{835,836,837} Once a patient
relapses, the likelihood of response is highly dependent on time from initial therapy to relapse, with survival based on the duration of remission. According to the applicant, ES–SCLC is incurable; patients are treated with palliative intent, with a median survival of 7 to 11 months after diagnosis and with less than 5% survival at 2 years. Even limited-stage disease is rarely cured with radical local therapy (surgery or radiotherapy), and systemic chemotherapy (platinum plus etoposide) remains the cornerstone of first-line therapy for SCLC. Despite best management, the 5-year overall survival (OS) of even limited-stage SCLC is still only 15% to 25%.

The applicant asserted that while SCLC shows high sensitivity to first-line chemotherapy and radiotherapy, most patients develop disease relapse or progression within one year of treatment. It is reported that about 80% of limited-stage SCLC patients and almost all patients with ES–SCLC will develop relapse or progression of first-line treatment. Without second-line chemotherapy, the median survival time is 2 to 4 months.

The applicant stated that among elderly patients with extensive-stage small cell and metastatic non-small cell lung cancers, BMC Health Serv Res. 2014;14:555.


Monnet I, et al. Carboplatin-etoposide versus topotecan as second-line treatment for sensitive relapsed small-cell lung cancer: Phase 3 trial (ID 546) IASLC. 2019 World Conference on Lung Cancer; Barcelona, Spain; September 7–10, 2019 (abstr OA15.02).


Monnet I, et al. Carboplatin-etoposide versus topotecan as second-line treatment for sensitive relapsed small-cell lung cancer: Phase 3 trial (ID 546) IASLC. 2019 World Conference on Lung Cancer; Barcelona, Spain; September 7–10, 2019 (abstr OA15.02).


Monnet I, et al. Carboplatin-etoposide versus topotecan as second-line treatment for sensitive relapsed small-cell lung cancer: Phase 3 trial (ID 546) IASLC. 2019 World Conference on Lung Cancer; Barcelona, Spain; September 7–10, 2019 (abstr OA15.02).

According to the applicant, ZEPZELCA™ is a transcription inhibitor that binds DNA preferentially in quinine-rich sequences located within gene regulatory elements and induces a rapid degradation of transcribing RNA polymerase II that induces the evasion of oncogenic transcription factors and the silencing of their transcription program. The applicant states that ZEPZELCA™ has preclinical data which suggests that oncogenic transcription of DNA to RNA was selectively inhibited via the dual actions of RNA polymerase II degradation and the formation of DNA breaks, which leads to apoptosis. The applicant further states that ZEPZELCA™ has been shown to induce immunogenic cell death, and based on preclinical data, impacts the tumor microenvironment by altering the survival of tumor-associated macrophages (TAMs) and the production and function of key oncogenic inflammatory and growth factors.

According to the applicant, topotecan is a semi-synthetic derivative of camptothecin with topoisomerase I-inhibitory activity that relieves torsional strain in DNA by inducing reversible single strand breaks. The pharmacokinetics of topotecan have been evaluated in cancer patients following doses of 0.5 to 1.5 mg/m² administered as a 30-minute infusion. Topotecan exhibits multiexponential pharmacokinetics with a terminal half-life of 2 to 3 hours. Total exposure area under the curve (AUC) is approximately dose proportional. The applicant asserts that a clinical differentiator of ZEPZELCA™ from topotecan is the rate of hematologic adverse reactions including neutropenia, anemia, thrombocytopenia, and febrile neutropenia.

Lastly, the applicant asserted that ZEPZELCA™ is not substantially similar to the more recently approved first-line treatments for ES–SCLC, TECENTRIQ® (atezolizumab) and IMFINZI® (durvalumab), both of which are PD–L1 blocking antibodies.

With respect to the second criterion, whether a product is assigned to the same or a different MS–DRG, the applicant stated that ZEPZELCA™ will not map to MS–DRGs distinct from other treatments for SCLC.

With respect to the third criterion, whether the new use of the technology meets the newness criterion.

The applicant repeated results concerning the efficacy of topotecan and asserted that the efficacy results were achieved with a high rate of grade three and four hematologic Treatment Emergent Adverse Events (TEAEs).

In summary, the applicant asserted that ZEPZELCA™ meets the newness criteria because its mechanism of action is not the same or similar to the mechanism of action of currently available products used in the treatment of adult patients with metastatic SCLC and because it is indicated in patients with disease progression on or after platinum-based chemotherapy.

We are inviting public comments on whether ZEPZELCA™ is substantially similar to an existing technology and whether it meets the newness criterion.

With respect to the cost criterion, the applicant conducted the following analysis to demonstrate that ZEPZELCA™ meets the cost criterion. For the primary cost analysis cohort the applicant used the selection criteria of the presence of a lung cancer code as defined by ICD–10–CM family C34 (Malignant neoplasm of bronchus and lung) as the principal diagnosis and the presence of any chemotherapy code as
defined by ICD–10–CM Z51.11 (Encounter for antineoplastic chemotherapy), ICD–10–CM Z51.12 (Encounter for antineoplastic immunotherapy), or any ICD–10–PCS chemotherapy code. Additionally, the applicant performed three sensitivity analyses for the cost criterion. The first is a broad cohort with the selection criteria of the presence of at least one lung cancer code (C34xx) and the presence of any chemotherapy code as defined by ICD–10–CM code Z51.11 (Encounter for antineoplastic chemotherapy), Z51.12 (Encounter for antineoplastic immunotherapy), or any ICD–10PCS chemotherapy code. The second and third analyses involved TECENTRIQ® and IMFINZI® which are both immunotherapy drugs that have FDA approval for use as part of the first-line treatment in patients with SCLC. These drugs are to be used along with chemotherapy. The second analysis is the “TECENTRIQ®” cohort with the selection criteria of the presence of at least one lung cancer code (C34xx) as either the principal or admitting diagnosis, and excluding cases with any ES–SCLC surgical codes. The final analysis, the “IMFINZI®” cohort, has the selection criteria of at least one of the following: (1) Presence of at least one lung cancer code (C34xx) and presence of any platinum-based chemotherapy code as defined by ICD–10–CM Z51.11 (Encounter for antineoplastic chemotherapy) or Z51.12 (Encounter for antineoplastic immunotherapy); (2) Presence of at least one lung cancer code (C34xx) and assigned to MS–DRGs for respiratory neoplasms (180–182). The applicant stated that ZEPZELCA™ is supplied in 4 mg single-dose vials with the recommended dose of 3.2 mg/m² by intravenous infusion over 60 minutes every 21 days until disease progression or unacceptable toxicity. Based on clinical study, the applicant stated that a single dose of ZEPZELCA™ ranged from 4.05 mg to 6.4 mg. To identify cases that may be eligible for the use of ZEPZELCA™, the applicant searched the FY 2019 MedPAR LDS file using these cohort selection criteria. The applicant stated that in all analyses, they imputed a case count of 11 for MS–DRGs with fewer than 11 cases and calculated the weighted average standardized charges across all MS–DRGs.

Based on the FY 2019 MedPAR LDS file, the applicant identified a total of 1,100 cases in the primary cohort (mapped to 17 MS–DRGs). 4,694 cases in the first sensitivity cohort (mapped to 195 MS–DRGs), 34,437 cases in the second sensitivity cohort (mapped to 253 MS–DRGs), and 24,209 cases in the third sensitivity cohort (mapped to 128 MS–DRGs). The applicant utilized the FY 2019 Final Rule with Correction Notice IPPS Impact File. Using the cases identified, the applicant then calculated the unstandardized average charges per case for each MS–DRG. The applicant expects that ES–SCLC patients will receive their initial dose of ZEPZELCA™ in the inpatient setting. The applicant then standardized the charges and inflated the charges by 1.13218 or 13.2 percent, the same inflation factor used by CMS to update the outlier threshold in the FY 2021 IPPS/LTCCH PPS final rule. The applicant removed charges associated with chemotherapy since treatment with ZEPZELCA™ would replace chemotherapy. To do so the applicant found the ratio of chemotherapy charges to radiology charges (0.14470075) from claims in the FY 2019 inpatient standard analytic file with a primary diagnosis of lung cancer (ICD–10–CM C34xx) and chemotherapy charges greater than zero. The applicant then added the charges for ZEPZELCA™ by converting the costs of a single treatment (two single-dose vials) to a charge by dividing the cost by the national average cost-to-charge ratio of 0.187 for pharmacy from the FY 2021 IPPS/LTCCH PPS final rule. The applicant calculated a final inflated average case weight standardized charge per case for the primary cohort as $206,030, and $182,895, $146,174, and $130,975 for sensitivity cohorts 1, 2 and 3, respectively. The applicant referred to the FY 2022 New Technology Thresholds data file to determine the average case-weighted threshold amount for the primary cohort as $79,420, and $70,499, $70,226, and $57,393 for sensitivity cohorts 1, 2 and 3, respectively. The final inflated average case-weighted standardized charge per case in the primary cohort and three sensitivity cohorts exceeded the average case-weighted threshold amount by $126,610, $112,396, $75,948, and $73,592 respectively. Because the final inflated average case-weighted standardized charge per case exceeds in all scenarios the average case-weighted threshold amount, the applicant maintained that the technology meets the cost criterion.

While we would not expect a significant difference, we note that instead of referring to the correction notice tab within the FY 2022 New Technology Thresholds data file, the applicant referred to the final rule tab. The FY 2022 New Technology Thresholds data file is available on the CMS IPPS home page at: https://www.cms.gov/medicare/acute-inpatient-pps/fy-2021-IPPS-final-rule-home-page#Data.

We also note that the analysis provided by the applicant includes many MS–DRGs that are defined by factors that may or may not be related to ZEPZELCA™’s indication for metastatic SCLC. For example, it is not clear that MS–DRG 004 Trach w/ MV >96 Hrs or Pdx Exc Face, Mouth & Neck w/o Maj O.R has a direct connection to small cell lung cancer though it may be related.

We are inviting public comment on whether ZEPZELCA™ meets the cost criterion.

With respect to the substantial clinical improvement criterion, the applicant asserted that ZEPZELCA™ significantly improves clinical outcomes over existing treatment options for adult patients with metastatic SCLC with disease progression on or after platinum-based chemotherapy in five ways. First, ZEPZELCA™ offers an improved treatment option from both a safety and efficacy standpoint. Second, ZEPZELCA™ offers safety improvement for treatment of patients with metastatic SCLC with disease progression on or after platinum-based chemotherapy over safety results previously reported in the literature for a comparable patient population. Third, patients with metastatic SCLC whose disease progresses on or after platinum-based chemotherapy achieved higher overall response rates (ORRs) following treatment with ZEPZELCA™ than ORR that had been previously reported in the literature for a comparable patient population. Fourth, overall survival (OS) rates achieved with ZEPZELCA™ are clinically meaningful and are the highest rates reported for patients with metastatic SCLC whose disease progresses on or after platinum-based chemotherapy in more than 2 decades. Fifth, the applicant asserted that ZEPZELCA™ may represent a valuable treatment alternative to platinum rechallenge. The applicant submitted (or in some cases, referred to) multiple sources in support of these claims including retrospective analyses and other studies, a meta-analysis, data abstracts, literature reviews, prescribing information, FDA approved cancer therapies, practice guidelines, workgroup deliberations, a commentary, and an opinion regarding survival outcomes.

With regard to the first claim, the applicant stated that ZEPZELCA™ is the first second-line treatment option approved for SCLC since 1998 and is
indicated for the treatment of adult patients with metastatic SCLC with disease progression on or after platinum-based chemotherapy, a patient population with dismal outcomes. The applicant also stated that ZEPZELCA™ offers an improved treatment option from both a safety and efficacy standpoint. The applicant outlined the nature of small cell lung cancer, patient treatment and prognosis. The applicant also stated that ZEPZELCA™ could represent a valuable option for a patient population with high unmet medical need. Sufficiently, the applicant referred to four analyses, an epidemiology review, prescribing information, practice guidelines, a literature review inclusive of four articles, and one ZEPZELCA™ study.

First, an analysis stated that although small cell lung cancer shows high sensitivity to first-line chemotherapy and radiotherapy, most patients develop disease relapse or progression. Another analysis stated that most patients experience relapse of small cell lung cancer within a year of treatment. A separate analysis indicated that most patients who have initially responded to chemotherapy and radiotherapy eventually experience recurrence of the cancer in a few months. The fourth analysis indicated that almost all patients with extended disease will develop disease relapse or progression after first-line treatment and that without second-line chemotherapy, the median survival time is to 2 to 4 months. Next, in referring to the epidemiology review, the applicant stated that most cases of small cell lung cancer occur in individuals aged 60–80. In referring to prescribing information, the applicant stated that in 1998, Hycamtin (topotecan) was approved for patients with SCLC sensitive disease after failure of first-line chemotherapy. The applicant further stated that in the topotecan Phase 3 clinical study, sensitive disease was defined as disease responding to chemotherapy, but subsequently progressing at least 60 days after chemotherapy.

Next, in referring to practice guidelines, the applicant stated that ZEPZELCA was studied in a broader (resistant disease and sensitive disease) population of SCLC patients and that prespecified subgroup analyses of ZEPZELCA results were done for patients with SCLC by CTIF in patients with resistant disease (CTIF <90 days) and sensitive disease (CTFI interval ≥90 days). The applicant further noted that NCCN guidelines list ZEPZELCA as a preferred regimen for second-line treatment of patients with a CTFI ≥6 months and recommended ZEPZELCA for patients with a CTFI >6 months.

Next, the applicant referred to a literature review and submitted four sources. First, per the applicant, Iams et al. describes available data on clinical efficacy, the emerging evidence regarding biomarkers and ongoing clinical trials using immune checkpoint inhibitors and other immunotherapies in patients with SCLC. The article included a discussion of the significant unmet needs in second-line therapy for SCLC. Second, per the applicant, Tsiorpou et al. reported on a literature review of immunotherapy in treatment of ES–SCLC and included a discussion of the significant unmet needs in second-line therapy for SCLC. Third, per the applicant, Wang et al. presented a review of SCLC development, current therapy and included a discussion of the significant unmet needs in second-line therapy for SCLC. Fourth, per the applicant, Taniguchi et al. is an opinion article discussing recent developments in the treatment of SCLC and includes a discussion of the significant unmet needs in second-line therapy for SCLC.

Finally, the applicant referred to Trigo, et al., and stated that authors expressed that ZEPZELCA could present a valuable potential new treatment option after first-line platinum based chemotherapy.

With regard to the second claim, the applicant asserted that ZEPZELCA™ offers safety improvement for treatment of patients with metastatic SCLC with disease progression on or after platinum-based chemotherapy over safety results previously reported in the literature for a comparable patient population. The applicant asserted that safety is of particular importance for patients ≥65 with age being a major patient-related risk factor. The applicant also referred to a meeting abstract stating that several acute toxicities were more common in Medicare patients initiating second-line chemotherapy than in all patients at diagnosis: Infectious disease (57% versus 43%), electrolyte disorder (50% versus 22%), anemia (45% versus 19%), neutropenia (17% versus 0.1%), thrombocytopenia (12% versus 2%), and diarrhea (7% versus 3%).

The applicant also referred to six studies to support this claim. First, the applicant submitted Trigo et al., that was based on Study B–005 (NCT01454972), a single-arm, open-label, phase II basket trial to evaluate the activity and safety of lurbinectedin in patients with SCLC after failure of platinum-based chemotherapy. One hundred five patients with a diagnosis of SCLC and pre-treated with only one previous chemotherapy-containing line of treatment were included. Treatment consisted of 3.2mg/m2 lurbinectedin intravenously every 3 weeks until disease progression or unacceptable toxicity. The safety-related outcomes demonstrated the following adverse events: Anemia 9%, leucopenia 29%, neutropenia 46%, and thrombocytopenia 7%. Serious treatment-related adverse events occurred in 10% of patients, of which

---


neutropenia and febrile neutropenia were the most common with 5% of patients for each.888
Second, the applicant submitted an article from Von Pawel, et. al., of a randomized phase 3 study of a total of 637 patients with refractory or sensitive SCLC treated with topotecan and reported hematologic toxicities of grade ≥3 anemia, 30.5%; neutropenia, 53.8%; thrombocytopenia, 54.3%; febrile neutropenia, 3%,889
Third, the applicant submitted an open label phase 2 study of 179 patients with SCLC who relapsed after initial platinum-based chemotherapy, treated with topotecan and reported hematologic toxicities of neutropenia, 78.4%; thrombocytopenia, 45.5%; and febrile neutropenia/neutropenic infection/neutropenic sepsis, 18%.890
Fourth, the applicant submitted an abstract from Monnet, et. al. of an open-label, multicenter, phase 3 trial that randomized patients with SCLC that responded to first-line plat-in- etoposide doublet treatment but showed evidence of disease relapse or progression at least 90 days after completion of the first-line treatment. Eighty-two patients were assigned to each treatment group: Those receiving combination chemotherapy (carboplatin and etoposide) versus those receiving oral topotecan. The abstract indicated that grade 3/4 neutropenia was significantly more common in the topotecan group at 35.8% versus 19.7%; insignificantly more febrile neutropenia in the topotecan arm at 13.6% versus 6.2%; no difference for grade 3/4 thrombocytopenia, 35.8% versus 30.9%; and anemia, 24.6% versus 21%.891
Fifth, the applicant submitted an abstract from Leary, et. al., that is described as a basket safety analysis with data from the phase II, single arm basket study by Trigo, et. al. (discussed previously), and a phase III RCT, the CORAIL study. The pooled analysis included a total of 554 patients treated with lurbinectin. Of the 554, 335 were from the phase II basket study with selected solid tumors (9 indications including 105 patients with small cell lung cancer) and 219 were from the phase III CORAIL study with platinum resistant ovarian cancer. Authors presented an indirect exploratory comparison (pooled data from CORAIL + basket) and a direct comparison (data from CORAIL) of lurbinectin vs. topotecan. Authors reported adverse events with lurbinectin were grade 3/4 fatigue, nausea and vomiting. Treatment-related lurbinectin/ topotecan outcomes showed: Dose reductions: 22.9/48.3%; delays: 25.8/ 52.9%; grade ≥3 serious adverse events: 15.0/32.2%; discontinuations: 3.2/5.7%; deaths: 1.3/1.5%; granulocyte colony stimulating factor (G-CSF) use: 23.8/ 70.1%; and transfusions: 15.9/52.0%. Authors concluded by stating that a significant safety advantage was observed when lurbinectin was compared with topotecan in the CORAIL trial in terms of hematological toxicities. Authors also noted that with the limitations of indirect comparisons, in the pooled safety analysis, fewer lurbinectin-treated patients had severe hematological toxicities, severe adverse events, dose adjustments, treatment discontinuations and use of supportive treatments than topotecan-treated patients.892
Sixth, the applicant provided a presentation summarizing results from the randomized phase 3 CORAIL study. The patient population was comprised of platinum resistant ovarian, fallopian or primary peritoneal cancer. Enrolled patients were randomly assigned to receive lurbinectin or investigator choice of pegylated liposomal doxorubicin (PLD) or topotecan. The applicant stated ZEPZELCA™ was better tolerated than the control arm and that, overall, the data support a favorable safety profile for ZEPZELCA™.893
With regard to the third claim, the applicant stated that patients with metastatic SCLC whose disease progresses on or after platinum-based chemotherapy achieved higher ORRs following treatment with ZEPZELCA™ than ORR that had been previously reported in the literature for a comparable patient population. The applicant referred to four primary resources in support of ZEPZELCA™. First, as described previously, the applicant submitted Trigo, et. al., in which the primary endpoint is described as lurbinectin anti-tumor activity in terms of investigator-assessed overall response (OR) and duration of response (DOR) as a secondary endpoint.894 The OR rate was identified as 35.2% and the mean DOR as 5.3 months. Second, the applicant submitted an abstract from Subbiah, et. al., a sub-study from Study B–005, that concluded that time from randomization to response was similar regardless of prior resistance or sensitivity to platinum-based chemotherapy, and clinically meaningful DOR was noted in both subgroups of responders.895 Third, the applicant submitted an abstract from a second sub-study from Study B–005, indicating that ORR was similar across baseline characteristics: Age <65 = 36.8%; age ≥65 = 32.4%; female = 31%; male = 38.1%; 1 prior line of therapy = 34.7%; ≥2 prior lines of therapy = 42.9%; BSA ≤1.8m2 = 34.5%; and BSA >1.8m2 = 36%. The authors concluded by noting that responsive to lurbinectin appeared consistent regardless of baseline patient characteristics.896 Fourth, the applicant submitted a commentary from Arrieta, et. al., and stated that ZEPZELCA™ outperformed all previously reported results for topotecan.897
The applicant also referred to three additional sources reflecting ORRs following treatment with topotecan. The Phase 3 trial of a total of 637 patients with refractory or sensitive SCLC treated with topotecan demonstrated an ORR of 16.9% and DOR of 4.2 months.898 In the open-label, multicenter, phase 3 trial of 164 patients with sensitive relapsed SCLC that responded to first-line plat-in etoposide doublet treatment but showed evidence of disease relapse or progression at least 90 days after other first-line platinum-based chemotherapy, J Clin Oncol. 2015;10:121-128.899
893 Gaillard S, et al. Phase III trial of lurbinectin versus PLD or topotecan in platinum-resistant ovarian cancer patients: Results of the CORAIL trial. 2018 ESMO Presentation.
894 Additional secondary endpoints are discussed with the overall survival claim.
completion of the first-line treatment, patients randomized to the topotecan group demonstrated an ORR of 25%, \textsuperscript{899} Lastly, a randomized, multi-center phase 3 trial of 107 patients treated with topotecan reported an ORR of 24.3%. \textsuperscript{900}

With regard to the fourth claim, the applicant stated that the OS rates achieved with ZEPZELCA\textsuperscript{TM} are clinically meaningful and are the highest rates reported for patients with metastatic SCLC whose disease progresses on or after platinum-based chemotherapy in more than 2 decades. The applicant submitted two studies in support of its claim of improved survival rates in patients treated with ZEPZELCA\textsuperscript{TM}. First, as described previously, the applicant submitted Trigo, et al. and highlighted secondary endpoints including progression-free survival, progression-free survival at 4 and 6 months, overall survival and overall survival at 6 and 12 months. The mean progression free survival was identified as 3.5 months, mean overall survival 9.3 months in the overall population. 11.9 months in patients with a CTFI >290 days and 5.0 months in those with CTFI <90 days. \textsuperscript{901}

Second, the applicant submitted an abstract from Subbiah, et al., that summarized a sub-study from Study B–005 in which overall survival was a secondary endpoint. Authors report that patients treated with lurbinectedin had CTFI ≥180 days and form the basis for their analysis. Sixty percent of patients were male, had ECOG PS 0–1, and had a median age of 57 years. Extensive stage disease at initial diagnosis was present in 35% of patients. All 20 patients had received prior platinum/etoposide, with no prior immunotherapy. Authors also reported that with a censoring of 55.0%, the median overall survival was 16.2 months. Per the abstract, eleven patients (55.0%) were censored for survival analysis. Eight were on follow-up after disease progression, two were ongoing lurbinectedin treatment, and one had treatment discontinuation because of a treatment-related adverse event (worsening of prior peripheral neuropathy). Median follow-up was 15.6 months. Authors concluded from randomization to response was similar regardless of prior resistance or sensitivity to platinum-based chemotherapy. \textsuperscript{902}

The applicant also referred to several randomized phase I and II studies of patients undergoing alternate therapies and highlighted those OS rates. The applicant provided an abstract from Monnet, et al., (as mentioned previously with respect to applicant’s second and third claims) summarizing results from a study that investigated whether the doublet carboplatin-etoposide was superior to topotecan monotherapy as second-line treatment in patients with sensitive relapsed SCLC. Authors reported patients treated with topotecan had progression free survival (PFS) of 2.7 months and OS of 7.4 months.\textsuperscript{903} The applicant also referred to Evans, et al., summarizing results from a study of patients with SCLC who relapsed after initial platinum-based chemotherapy who were divided into phase 13. Patients were treated with topotecan. Authors reported topotecan PFS of 3.0 months and OS of 6.8 months.\textsuperscript{904} The applicant referred to Von Pawel, et al., summarizing the results of a phase 3 trial of a total of 637 patients with refractory or sensitive SCLC, including topotecan PFS of 3.5 months and OS of 7.8 months (5.7 months for refractory). \textsuperscript{905} Lastly, the applicant referred to Von Pawel, et al., that reported randomized, multi-center phase 3 results for topotecan with time to progression of 13.3 weeks and median OS of 25 weeks. \textsuperscript{906}

The applicant explained that a statement from an American Society of Clinical Oncology (ASCO) workgroup indicated that relative improvements in median OS of at least 20% are necessary to define a clinically meaningful improvement in outcome. \textsuperscript{907} The applicant summarized oncology literature reviews between 2014 and 2016 asserting that ASCO’s threshold for OS was met in only 12% of studies (6 of 49) and 19% of therapies. \textsuperscript{908} \textsuperscript{909}

The applicant further stated that ZEPZELCA\textsuperscript{TM}’s median OS for the overall population compared to the literature, meets the ASCO threshold and, for subsets of patient groups, median OS exceeds the ASCO threshold for clinically meaningful.

The applicant concluded by stating that there is an urgent need for new treatment options for the SCLC population. \textsuperscript{910} The applicant asserted that CMS’s new technology add-on payment approval of TECENTRIQ® for the treatment of patients with ES–SCLC effective for FY 2021 (85 FR 58684) further supports the urgency, referring to its 2 month improvement in survival.

The applicant also referred to comments from specialists in the field of lung cancer stating that despite small trial sizes, improvement in overall survival is a major achievement and that any advance in survival is important given that few patients diagnosed with SCLC survive for even a year despite treatment. \textsuperscript{911}

With regard to the fifth claim, that ZEPZELCA\textsuperscript{TM} may represent a valuable treatment alternative to platinum rechallenge, the applicant submitted several sources pertaining to ZEPZELCA\textsuperscript{TM}. First, the applicant submitted two sub-analyses from Subbiah, et al., that were based on Study B–005 as its primary support for ZEPZELCA\textsuperscript{TM}. In both of these sub-analyses, patients had been pre-treated with one prior platinum-containing line. The first analysis included 20 patients from a subset of patients with CTFI >180 and authors report that patients


\textsuperscript{909} Kumar H, et al. An appraisal of clinically meaningful outcomes guidelines for oncology clinical trials. JAMA Oncology. Published online: Vol 2, No 9, 1238–1240.


treated with lurbinectedin had an ORR at 60.0% and a median DoR of 5.5 months. The second analysis included 60 patients from a SCLC cohort of the basket trial, with CTFI >90 d (20 pts with CTFI >180 d). The applicant states that ZEPZELCA™ was shown to be effective and well-tolerated in the platinum-sensitive relapsed SCLC population especially when CTFI >180 days. From these results, the authors concluded that ZEPZELCA™ may represent a valuable alternative to platinum rechallenge.914 The applicant also referenced Arrieta et al., stating that ZEPZELCA™ data outperformed less established treatment schemes including platinum rechallenge.914 The applicant stated that the July 7, 2020 NCCN Clinical Practice Guidelines in Oncology indicate that lurbinectedin is identified as a Preferred Regimen in relapse ≤6 months and a Recommended Regimen in relapse >6 months.915 The applicant referred to the authors’ conclusion in Genestreti et al., stating that the outcome for second line chemotherapy for SCLC is poor and that rechallenge platinum/etoposide is a reasonable option with potentially better outcomes than standard chemotherapy.916 Finally, the applicant referred to Monnet et al., stating that patients treated with combination therapy, carboplatin and etoposide, achieved a median OS of 7.4 months and ORR of 49%,917 After review of the information provided by the applicant, we have the following concerns. The evidence submitted by the applicant in support of ZEPZELCA™’s improvement in overall response and survival rates is based on one single-arm, open label, phase II basket study (Study B—005 (NCT01454972)) and several smaller subsetted analyses that were based on the basket study, and we note that without a direct comparison arm it may be more difficult to draw definitive conclusions.918 919 920 921 We note the following differences between the historical control patients and patients treated with ZEPZELCA™ in these studies, which may confound the comparisons: First, patients with central nervous system involvement (brain metastases) were excluded from ZEPZELCA™ treatment, and we note that Arrieta et al., noted that this criterion is of particular interest when translating results to the clinical setting, since patients with SCLC are known to be prone to develop brain metastases, and up to 50% do so throughout the disease course.922 Second, patients treated with ZEPZELCA™ had access to immunotherapy during first line treatment, which may support patients’ immune systems in fighting cancer. Third, the CTFI used in the single arm basket trial differs from those used in the historical controls of topotecan studies, and we note that CTFIs can impact treatment response and outcome. As, per the applicant, ZEPZELCA™ was listed as a preferred regimen by the NCCN Clinical Practice Guidelines for second-line treatment of patients with a CTFI ≤6 months and recommended for patients with a CTFI >6 months, while topotecan is only FDA approved for chemotherapy-sensitive cases, defined using a 60 day CTFI, we note that the appropriate comparator treatment for ZEPZELCA™ would differ depending on the CTFI subset. However, the historical controls relied on an overall topotecan population with CTFI >60. To the extent that this group was more heavily weighted with patients in the lower CTFI group, it is unclear whether this may partially explain the poorer outcomes of patients in the historical control groups. We also note that, while the claim of improved hematological outcomes using ZEPZELCA™ appears to be mostly supported by the female-only arm of the CORAIL study, results from the pooled sample of the basket trial still appeared to demonstrate an improvement over the topotecan arm. We believe that this may suggest that the inclusion of male patients did not alter the conclusion that patients treated with ZEPZELCA™ appeared more favorable than those treated with topotecan. We further note that bone marrow stimulating drugs were allowed in the topotecan arm of the CORAIL study so the observed adverse hematologic effects may have been the best case for that arm of the study. Finally, we note that the subsetted analyses generated from the primary basket study have small sample sizes and the authors of these studies stated that further research on larger populations is required to draw firm conclusions.923 924 We invite public comments on whether ZEPZELCA™ meets the substantial clinical improvement criterion.

We did not receive any written comments in response to the New Technology Town Hall meeting notice published in the Federal Register regarding the substantial clinical improvement criterion for ZEPZELCA™.


As discussed previously, beginning with applications for FY 2021, a medical device that is part of FDA’s Breakthrough Devices Program and has received marketing authorization for the indication covered by the Breakthrough Designation may qualify for the new technology add-on payment under an alternative pathway. Additionally, beginning with FY 2021, a medical product that is designated by the FDA as a Qualified Infectious Disease Product (QIDP) and has received marketing authorization for the indication covered by the QIDP
designation, and, beginning with FY 2022, a medical product that is a new medical product approved under FDA’s Limited Population Pathway for Antibacterial and Antifungal Drugs (LPAD) and used for the indication approved under the LPAD pathway, may also qualify for the new technology add-on payment under an alternative pathway. Under an alternative pathway, a technology will be considered new and not substantially similar to an existing technology for purposes of the new technology add-on payment under the IPPS and will not need to meet the requirement that it represents an advance that substantially improves, relative to technologies previously available, the diagnosis or treatment of Medicare beneficiaries. These technologies must still meet the cost criterion.

We note, section 1886(d)(5)(K)(iii) of the Act provides for the collection of data with respect to the costs of a new medical service or technology described in subclause (I) for a period of not less than 2 years and not more than 3 years beginning on the date on which an inpatient hospital code is issued with respect to the service or technology. Our regulations in §412.87(c)(2) for breakthrough devices and §412.87(d)(2) for certain antimicrobial products state that a medical device/product that meets the condition in paragraph (c)(1) or (d)(1) of §412.87 will be considered new for not less than 2 years and not more than 3 years after the point at which data begin to become available reflecting the inpatient hospital code (as defined in section 1886(d)(5)(K)(iii) of the Act) assigned to the new technology (depending on when a new code is assigned and data on the new technology become available for DRG recalibration). After CMS has recalibrated the DRGs, based on available data, to reflect the costs of an otherwise new medical technology, the medical technology will no longer be considered “new” under the criterion of this section.

We received 17 applications for new technology add-on payments for FY 2022 under the alternative new technology add-on payment pathway. One applicant withdrew its application prior to the issuance of this proposed rule. Of the remaining 16 applications, 13 of the technologies received a Breakthrough Device designation from FDA and three were designated as a QIDP by FDA. We did not receive any applications for technologies approved through the LPAD pathway. In accordance with the regulations under §412.87(e)(2), applicants for new technology add-on payments, including Breakthrough Devices, must have FDA marketing authorization by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. Under the policy finalized in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58742), we revised the regulations at §412.87(e) by adding a new paragraph (3) which provides for conditional approval for a technology for which an application is submitted under the alternative pathway for certain antimicrobial products (QIDPs and LPADs) at §412.87(d) that does not receive FDA marketing authorization by the July 1 deadline specified in §412.87(e)(2), provided that the technology receives FDA marketing authorization by July 1 of the particular fiscal year for which the applicant applied for new technology add-on payments. We refer the reader to the FY 2021 IPPS/LTCH final rule for a complete discussion of this policy (85 FR 58737 through 58742).

As we did in the FY 2021 IPPS/LTCH PPS proposed rule, for applications under the alternative new technology add-on payment pathway, in this proposed rule we are making a proposal to approve or disapprove each of these 16 applications for FY 2022 new technology add-on payments. Therefore, in this section of the preamble of this proposed rule, we provide background information on each alternative pathway application and propose whether or not each technology would be eligible for the new technology add-on payment for FY 2022. We refer readers to section II.H.8. of the preamble of the FY 2020 IPPS/LTCH PPS final rule (84 FR 42292 through 42297) and FY 2021 IPPS/LTCH PPS final rule (85 FR 58715 through 58733) for a complete discussion of the alternative new technology add-on payment pathways for these technologies.

a. Alternative Pathway for Breakthrough Devices

(1) Aprevo™ Intervertebral Body Fusion Device

Carlsmed, Inc. submitted an application for new technology-add-on payments for the Aprevo™ Intervertebral Fusion Device (aprevo™) for FY 2022. Per the applicant, the device is an interbody fusion implant that stabilizes the lumbar spinal column and facilitates fusion during lumbar fusion procedures indicated for the treatment of spinal deformity. The applicant states that the implant device is custom made for patient-specific features, but uses patient CT scans to create 3D virtual models of the deformity. The device is used during anterior lumbar interbody fusion, lateral lumbar interbody fusion, transforaminal lumbar interbody fusion, or standalone anterior lumbar interbody fusion procedures. According to the applicant, the aprevo™ device is additively manufactured and made from Titanium Alloy (Ti-6Al-4V) per ASTM F3001, and has a cavity intended for the packing of bone graft. In addition, the applicant explained that aprevo™ is used with supplemental fixation devices and bone graft packing. Per the applicant, the device was formerly known as “Corra™.”

The aprevo™ device received FDA Breakthrough Device designation under the name “Corra” on July 1, 2020 for the Corra Anterior, Corra Transforaminal and Corra Lateral Lumbar Fusion System interbody device which is intended for use in anterior lumbar interbody fusion (ALIF), lateral lumbar interbody fusion (LLIF), and transforaminal lumbar interbody fusion (TLIF) under this designation. The applicant was granted FDA 510(k) clearance as a Class II medical device for the anterior lumbar interbody fusion and lateral lumbar interbody fusion indications on December 3, 2020. The applicant anticipates that the aprevo™ device will receive FDA marketing authorization by May 2021 for the additional indications of transforaminal interbody fusion and standalone anterior lumbar interbody fusion (which incorporates supplemental fixation).

Since the anterior and lateral lumbar fusion indications that received marketing authorization on December 3, 2020 correspond to the indications that received Breakthrough Device designation, it appears that the newness date for these indications would be December 3, 2020. The transforaminal interbody fusion indication, which also corresponds to the indication that received Breakthrough Device designation, would have a different newness date, depending on when marketing authorization is received for that indication. We note that under the eligibility criteria for approval under the alternative pathway for certain transformative new devices, only the use of aprevo™ for the ALIF, LLIF, and TLIF indications, and the FDA Breakthrough Device designations it received for these uses, are relevant for purposes of the new technology add-on payment application for FY 2022.

According to the applicant, there are currently no unique ICD–10–PCS codes describing the device. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a code for FY
2022 to uniquely identify the technology. With respect to the cost criterion, the applicant provided the following analysis. The applicant used the MS–DRG grouping function within MedPAR dataset for cases reporting a diagnosis code in Table B or a secondary diagnosis code in Table C.

The applicant conducted a review of ICD–10–PCS codes for procedures in which the aprovo™ patient-specific interbody fusion cases might be placed into the lumbar spine of an adult patient diagnosed with spinal curvature. For MS–DRGs 453, 454, and 455, the applicant searched the FY 2019 MedPAR dataset for cases with any of the following procedure codes:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>DESCRIPTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>453</td>
<td>Combined Anterior/Posterior Spinal Fusion With Mcx</td>
</tr>
<tr>
<td>454</td>
<td>Combined Anterior/Posterior Spinal Fusion With Cc</td>
</tr>
<tr>
<td>455</td>
<td>Combined Anterior/Posterior Spinal Fusion Without Cc/Mcx</td>
</tr>
<tr>
<td>456</td>
<td>Spinal Fusion Except Cervical With Spinal Curvature Or Malignancy Or Infection Or Extensive Fusions With Mcx</td>
</tr>
<tr>
<td>457</td>
<td>Spinal Fusion Except Cervical With Spinal Curvature Or Malignancy Or Infection Or Extensive Fusions With Cc</td>
</tr>
<tr>
<td>458</td>
<td>Spinal Fusion Except Cervical With Spinal Curvature Or Malignancy Or Infection Or Extensive Fusions Without Cc/Mcx</td>
</tr>
</tbody>
</table>

The following six relevant MS–DRGs:

<table>
<thead>
<tr>
<th>Procedure Code</th>
<th>Procedure Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0SG00A0</td>
<td>Fusion of lumbar vertebral joint with interbody fusion device, anterior approach, anterior column, open approach</td>
</tr>
<tr>
<td>0SG00AJ</td>
<td>Fusion of lumbar vertebral joint with interbody fusion device, posterior approach, anterior column, open approach</td>
</tr>
<tr>
<td>0SG03A0</td>
<td>Fusion of lumbar vertebral joint with interbody fusion device, anterior approach, anterior column, percutaneous approach</td>
</tr>
<tr>
<td>0SG03AJ</td>
<td>Fusion of lumbar vertebral joint with interbody fusion device, posterior approach, anterior column, percutaneous approach</td>
</tr>
<tr>
<td>0SG04A0</td>
<td>Fusion of lumbar vertebral joint with interbody fusion device, anterior approach, anterior column, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0SG04AJ</td>
<td>Fusion of lumbar vertebral joint with interbody fusion device, posterior approach, anterior column, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0SG10A0</td>
<td>Fusion of 2 or more lumbar vertebral joints with interbody fusion device, anterior approach, anterior column, open approach</td>
</tr>
<tr>
<td>0SG10AJ</td>
<td>Fusion of 2 or more lumbar vertebral joints with interbody fusion device, posterior approach, anterior column, open approach</td>
</tr>
<tr>
<td>0SG13A0</td>
<td>Fusion of 2 or more lumbar vertebral joints with interbody fusion device, anterior approach, anterior column, percutaneous approach</td>
</tr>
<tr>
<td>0SG13AJ</td>
<td>Fusion of 2 or more lumbar vertebral joints with interbody fusion device, posterior approach, anterior column, percutaneous approach</td>
</tr>
<tr>
<td>0SG14A0</td>
<td>Fusion of 2 or more lumbar vertebral joints with interbody fusion device, anterior approach, anterior column, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0SG14AJ</td>
<td>Fusion of 2 or more lumbar vertebral joints with interbody fusion device, posterior approach, anterior column, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0SG30A0</td>
<td>Fusion of lumbosacral joint with interbody fusion device, anterior approach, anterior column, open approach</td>
</tr>
<tr>
<td>0SG30AJ</td>
<td>Fusion of lumbosacral joint with interbody fusion device, posterior approach, anterior column, open approach</td>
</tr>
<tr>
<td>0SG33A0</td>
<td>Fusion of lumbosacral joint with interbody fusion device, anterior approach, anterior column, percutaneous approach</td>
</tr>
<tr>
<td>0SG33AJ</td>
<td>Fusion of lumbosacral joint with interbody fusion device, posterior approach, anterior column, percutaneous approach</td>
</tr>
<tr>
<td>0SG34A0</td>
<td>Fusion of lumbosacral joint with interbody fusion device, anterior approach, anterior column, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0SG34AJ</td>
<td>Fusion of lumbosacral joint with interbody fusion device, posterior approach, anterior column, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

The applicant searched the FY 2019 MedPAR dataset for cases reporting a procedure code in Table A in combination with a primary diagnosis code in Table B or a secondary diagnosis code in Table C.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4000</td>
<td>Postural kyphosis, site unspecified</td>
</tr>
<tr>
<td>M4004</td>
<td>Postural kyphosis, thoracic region</td>
</tr>
<tr>
<td>M4005</td>
<td>Postural kyphosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4010</td>
<td>Other secondary kyphosis, site unspecified</td>
</tr>
<tr>
<td>M4014</td>
<td>Other secondary kyphosis, thoracic region</td>
</tr>
<tr>
<td>M4015</td>
<td>Other secondary kyphosis, thoracolumbar region</td>
</tr>
<tr>
<td>M40204</td>
<td>Unspecified kyphosis, thoracic region</td>
</tr>
<tr>
<td>M40205</td>
<td>Unspecified kyphosis, thoracolumbar region</td>
</tr>
<tr>
<td>M40209</td>
<td>Unspecified kyphosis, site unspecified</td>
</tr>
<tr>
<td>M40294</td>
<td>Other kyphosis, thoracic region</td>
</tr>
<tr>
<td>M40295</td>
<td>Other kyphosis, thoracolumbar region</td>
</tr>
<tr>
<td>M40299</td>
<td>Other kyphosis, site unspecified</td>
</tr>
<tr>
<td>M4030</td>
<td>Flatback syndrome, site unspecified</td>
</tr>
<tr>
<td>M4035</td>
<td>Flatback syndrome, thoracolumbar region</td>
</tr>
<tr>
<td>M4036</td>
<td>Flatback syndrome, lumbar region</td>
</tr>
<tr>
<td>M4037</td>
<td>Flatback syndrome, lumbosacral region</td>
</tr>
<tr>
<td>M4040</td>
<td>Postural lordosis, site unspecified</td>
</tr>
<tr>
<td>M4045</td>
<td>Postural lordosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4046</td>
<td>Postural lordosis, lumbar region</td>
</tr>
<tr>
<td>M4047</td>
<td>Postural lordosis, lumbosacral region</td>
</tr>
<tr>
<td>M4050</td>
<td>Lordosis, unspecified, site unspecified</td>
</tr>
<tr>
<td>M4055</td>
<td>Lordosis, unspecified, thoracolumbar region</td>
</tr>
<tr>
<td>M4056</td>
<td>Lordosis, unspecified, lumbar region</td>
</tr>
<tr>
<td>M4057</td>
<td>Lordosis, unspecified, lumbosacral region</td>
</tr>
<tr>
<td>M4120</td>
<td>Other idiopathic scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4124</td>
<td>Other idiopathic scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4125</td>
<td>Other idiopathic scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4126</td>
<td>Other idiopathic scoliosis, lumbar region</td>
</tr>
<tr>
<td>M4127</td>
<td>Other idiopathic scoliosis, lumbosacral region</td>
</tr>
<tr>
<td>M4130</td>
<td>Thoracogenic scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4134</td>
<td>Thoracogenic scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4135</td>
<td>Thoracogenic scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4140</td>
<td>Neuromuscular scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4144</td>
<td>Neuromuscular scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4145</td>
<td>Neuromuscular scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4146</td>
<td>Neuromuscular scoliosis, lumbar region</td>
</tr>
<tr>
<td>M4147</td>
<td>Neuromuscular scoliosis, lumbosacral region</td>
</tr>
<tr>
<td>M4150</td>
<td>Other secondary scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4154</td>
<td>Other secondary scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4155</td>
<td>Other secondary scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4156</td>
<td>Other secondary scoliosis, lumbar region</td>
</tr>
<tr>
<td>M4157</td>
<td>Other secondary scoliosis, lumbosacral region</td>
</tr>
<tr>
<td>M4180</td>
<td>Other forms of scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4184</td>
<td>Other forms of scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4185</td>
<td>Other forms of scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4186</td>
<td>Other forms of scoliosis, lumbar region</td>
</tr>
<tr>
<td>M4187</td>
<td>Other forms of scoliosis, lumbosacral region</td>
</tr>
<tr>
<td>M419</td>
<td>Scoliosis, unspecified</td>
</tr>
<tr>
<td>M438X4</td>
<td>Other specified deforming dorsopathies, thoracic region</td>
</tr>
<tr>
<td>M438X5</td>
<td>Other specified deforming dorsopathies, thoracolumbar region</td>
</tr>
<tr>
<td>M438X6</td>
<td>Other specified deforming dorsopathies, lumbar region</td>
</tr>
<tr>
<td>M438X7</td>
<td>Other specified deforming dorsopathies, lumbosacral region</td>
</tr>
<tr>
<td>M438X8</td>
<td>Other specified deforming dorsopathies, sacral and sacrococcygeal region</td>
</tr>
<tr>
<td>M438X9</td>
<td>Other specified deforming dorsopathies, site unspecified</td>
</tr>
<tr>
<td>M439</td>
<td>Deforming dorsopathy, unspecified</td>
</tr>
<tr>
<td>M4850XA</td>
<td>Collapsed vertebra, not elsewhere classified, site unspecified, initial encounter for fracture</td>
</tr>
<tr>
<td>M4854XA</td>
<td>Collapsed vertebra, not elsewhere classified, thoracic region, initial encounter for fracture</td>
</tr>
<tr>
<td>M4855XA</td>
<td>Collapsed vertebra, not elsewhere classified, thoracolumbar region, initial encounter for fracture</td>
</tr>
<tr>
<td>M4856XA</td>
<td>Collapsed vertebra, not elsewhere classified, lumbar region, initial encounter for fracture</td>
</tr>
<tr>
<td>M4857XA</td>
<td>Collapsed vertebra, not elsewhere classified, lumbosacral region, initial encounter for fracture</td>
</tr>
<tr>
<td>M4858XA</td>
<td>Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, initial encounter for fracture</td>
</tr>
<tr>
<td>M8008XA</td>
<td>Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture</td>
</tr>
<tr>
<td>M8098XA</td>
<td>Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture</td>
</tr>
<tr>
<td>M8358XA</td>
<td>Pathological fracture in neoplastic disease, other specified site, initial encounter for fracture</td>
</tr>
<tr>
<td>M8468XA</td>
<td>Pathological fracture in other disease, other site, initial encounter for fracture</td>
</tr>
</tbody>
</table>
The applicant identified 45,331 cases across all six MS–DRGs. The applicant first removed charges to account for the two types of prior technology devices that the applicant asserted are most likely to be replaced by a prevo® Intervertebral Body Fusion Device. Specifically, the applicant calculated an average cost for the top five selling devices in each category of prior technology, which include standalone ALIF and LLIF lateral expandable cages. The applicant then multiplied the cost of the technology being replaced by three, which, per the applicant, is the number of lumbar cages implanted for the correction of spinal curvature, to arrive at an estimated hospital cost per case. The applicant converted costs to charges by weighting the operating cost-to-charge ratios for each of the 3,315 hospitals in the FY 2021 IPPS/LTCH final rule and correction notice impact file by each hospital’s share of the 9,235,824 submitted bills to obtain a national average CCR of 0.2546, of which the inverse is a national-average hospital markup of 393 percent. The applicant then standardized the charges and applied an inflation factor of 13.1 percent, which, per the applicant, is the outlier charge inflation factor used in the FY 2021 IPPS/LTCH final rule (85 FR 59038), to update the charges from FY 2019 to FY 2021. We note that the applicant appears to have used the FY 2021 IPPS/LTCH PPS proposed rule inflation factor rather than the 2-year inflation factor from the FY 2021 IPPS/LTCH PPS final rule of 13.2 percent (85 FR 59039), which would have resulted in a higher inflated charge figure.

The applicant then added charges for the new technology by multiplying the estimated average cost for the a prevo® Intervertebral Body Fusion Device by three devices per case and converting the cost to charges using the 393 percent hospital charge markup. The applicant calculated a final inflated case-weighted average standardized charge per case of $247,648 and an average case-weighted threshold of $157,600. Because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that the a prevo® Intervertebral Body Fusion Device meets the cost criterion and therefore are proposing to approve the a prevo® Intervertebral Body Fusion device for the indications of ALIF and LLIF, and for the indication of TLIF, subject to the technology receiving FDA marketing authorization for that indication by July 1, 2021, as these indications correspond to the Breakthrough Device designation, for new technology add-on payments for FY 2022.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of the a prevo® Intervertebral Body Fusion is $31,500, or an estimated average cost of $10,500 per device multiplied by three, which, according to the applicant, is the average number of devices used per procedure. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of the a prevo® Intervertebral Body Fusion Device would be $20,475 for FY 2022.

---

**Table B – Primary Diagnosis Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>M962</td>
<td>Postradiation kyphosis</td>
</tr>
<tr>
<td>M963</td>
<td>Postlaminectomy kyphosis</td>
</tr>
<tr>
<td>M964</td>
<td>Postsurgical lordosis</td>
</tr>
<tr>
<td>M965</td>
<td>Postradiation scoliosis</td>
</tr>
<tr>
<td>Q675</td>
<td>Congenital deformity of spine</td>
</tr>
<tr>
<td>Q763</td>
<td>Congenital scoliosis due to congenital bony malformation</td>
</tr>
<tr>
<td>Q7625</td>
<td>Congenital lordosis, thoracolumbar region</td>
</tr>
<tr>
<td>Q7626</td>
<td>Congenital lordosis, lumbar region</td>
</tr>
<tr>
<td>Q7627</td>
<td>Congenital lordosis, lumbosacral region</td>
</tr>
<tr>
<td>Q7628</td>
<td>Congenital lordosis, sacral and sacrococcygeal region</td>
</tr>
<tr>
<td>Q7629</td>
<td>Congenital lordosis, unspecified region</td>
</tr>
</tbody>
</table>

**Table C – Secondary Diagnosis Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4010</td>
<td>Other secondary kyphosis, site unspecified</td>
</tr>
<tr>
<td>M4014</td>
<td>Other secondary kyphosis, thoracic region</td>
</tr>
<tr>
<td>M4015</td>
<td>Other secondary kyphosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4140</td>
<td>Neuromuscular scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4144</td>
<td>Neuromuscular scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4145</td>
<td>Neuromuscular scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4146</td>
<td>Neuromuscular scoliosis, lumbar region</td>
</tr>
<tr>
<td>M4147</td>
<td>Neuromuscular scoliosis, lumbosacral region</td>
</tr>
<tr>
<td>M4150</td>
<td>Other secondary scoliosis, site unspecified</td>
</tr>
<tr>
<td>M4154</td>
<td>Other secondary scoliosis, thoracic region</td>
</tr>
<tr>
<td>M4155</td>
<td>Other secondary scoliosis, thoracolumbar region</td>
</tr>
<tr>
<td>M4156</td>
<td>Other secondary scoliosis, lumbar region</td>
</tr>
<tr>
<td>M4157</td>
<td>Other secondary scoliosis, lumbosacral region</td>
</tr>
<tr>
<td>M438X9</td>
<td>Other specified deforming dorsopathies, site unspecified</td>
</tr>
</tbody>
</table>

---


2021 ibid.
We are inviting public comments on whether the aprevo™ Intervertebral Body Fusion Device meets the cost criterion and our proposal to approve new technology add-on payments for aprevo™ Intervertebral Body Fusion Device for FY 2022 for ALIF and LLIF, and for TLIF, subject to the technology receiving marketing authorization for that indication by July 1, 2021.

(2) aScope™ Duodeno

Ambu, Inc. submitted an application for new technology add on payments for the aScope™ Duodeno for FY 2022. The device is a sterile, single-use endoscope for endoscopy and endoscopic surgery indicated for treatment of the upper gastrointestinal (GI) tract. Per the applicant, the device includes a flexible insertion tube with a bendable tip equipped with lighting and camera. According to the applicant, the aScope™ Duodeno is inserted into the mouth of the patient and steered via the esophagus and stomach to the duodenum. The applicant states that single-use scopes eliminate the risk of patient-to-patient transmission of infection related to reprocessing. The applicant also states the device is designed to be used with aBox Duodeno, which is a video processor that outputs video imaging for observation and recording. Per the applicant, the device may also be used with existing external video monitors for image display as well as other endoscopic accessories and equipment.

The aScope™ Duodeno (formerly aScope 1 Duo) was designated as a Breakthrough Device, indicated for use with the aScope Base (now aBox Duodeno), endo-therapy accessories (for example, biopsy forceps) and other ancillary equipment (for example, video monitor) for endoscopy and endoscopic surgery within the duodenum, and received FDA 510(k) clearance as a Class II medical device on July 17, 2020 for the same indication. Per the applicant, the device was available on the market immediately after FDA clearance. According to the applicant, there are currently no unique ICD–10–PCS codes describing the device. The applicant stated that the applicant for EXALT™ Model D, another technology discussed in this section, submitted a request to the ICD–10 Coordination and Maintenance Committee for FY 2022 for a unique code to identify use of single-use duodenoscopes. The applicant further stated that since this code would describe and identify use of aScope, they did not submit a request for approval of a code to uniquely identify the technology.

To demonstrate that the technology meets the cost criterion, the applicant searched the FY 2019 MedPAR Limited Data Set (LDS) for cases reporting one of the following ICD–10–PCS codes commonly used to report endoscopic retrograde cholangiopancreatography (ERCP) and use of duodenoscopes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0FD48ZX</td>
<td>Extraction of gallbladder, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FD58ZX</td>
<td>Extraction of right hepatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FD68ZX</td>
<td>Extraction of left hepatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FD78ZX</td>
<td>Extraction of common hepatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FD88ZX</td>
<td>Extraction of cystic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FD98ZX</td>
<td>Extraction of common bile duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FDC8ZX</td>
<td>Extraction of ampulla of vater, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FDD8ZX</td>
<td>Extraction of pancreatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FDE8ZX</td>
<td>Extraction of accessory pancreatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FJ48ZZ</td>
<td>Inspection of gallbladder, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FJB8ZZ</td>
<td>Inspection of hepatobiliary duct, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FJD8ZZ</td>
<td>Inspection of pancreatic duct, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FB48ZX</td>
<td>Excision of gallbladder, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FB58ZX</td>
<td>Excision of right hepatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FB68ZX</td>
<td>Excision of left hepatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FB78ZX</td>
<td>Excision of common hepatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FB88ZX</td>
<td>Excision of cystic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FB98ZX</td>
<td>Excision of common bile duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FBC8ZX</td>
<td>Excision of ampulla of vater, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FBD8ZX</td>
<td>Excision of pancreatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FBF8ZX</td>
<td>Excision of accessory pancreatic duct, via natural or artificial opening endoscopic, diagnostic</td>
</tr>
<tr>
<td>0FN98ZZ</td>
<td>Release common bile duct, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FNC8ZZ</td>
<td>Release ampulla of vater, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FND8ZZ</td>
<td>Release pancreatic duct, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FNF8ZZ</td>
<td>Release accessory pancreatic duct, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>4A0C8BZ</td>
<td>Measurement of biliary pressure, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FF78ZZ</td>
<td>Fragmentation in common hepatic duct, via natural or artificial opening endoscopic</td>
</tr>
<tr>
<td>0FF98ZZ</td>
<td>Fragmentation in common bile duct, via natural or artificial opening endoscopic</td>
</tr>
</tbody>
</table>

The applicant excluded MS–DRGs that had fewer than 100 cases from the analysis. The applicant did not say how many cases it excluded based on this criterion.

In total, the applicant identified 54,848 cases across 40 unique MS–DRGs. The applicant then removed charges for prior technology by dividing the per use cost for reusable duodenoscopes and related components by the hospital-specific cost-to-charge ratio from the FY 2021 cost-to-charge ratio. The applicant excluded MS–DRGs that had fewer than 100 cases from the analysis. The applicant did not say how many cases it excluded based on this criterion.
IPPS/LTCH Proposed Rule Impact File at the claims level and averaging the resulting estimated charges by MS–DRG. The applicant then standardized the charges and applied an inflation factor of 13.2 percent, or the 2-year inflation factor used to update the outlier threshold in the FY 2021 IPPS/LTCH final rule (85 FR 59039), to update the charges from FY 2019 to FY 2021. The applicant added charges for the aScope™ Duodeno and related components by dividing the cost per use by the national cost-to-charge ratio of 0.2970 for Supplies and Equipment (85 FR 58601).

The applicant calculated a final inflated average case-weighted standardized charge per case of $89,945 and an average case-weighted threshold of $64,894. Because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that the aScope™ Duodeno meets the cost criterion; and therefore, we are proposing to approve the aScope™ Duodeno for new technology add-on payments for FY 2022.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of the aScope™ Duodeno is $2,184.27. However, the applicant noted in its application that this cost is broken down into three components, including the disposable sleeve, the aBox Duodeno (a video processor and light source), and other endoscopic accessories and equipment. We believe it is appropriate to only consider the cost of the disposable sleeve as the cost of the technology, as the other two components, which include the aBox Duodeno and an external monitor that, per the applicant, do not incur new costs per use, would thus be paid for under the IPPS for capital-related costs. As noted previously, because section 1886(d)(5)(K)(I) of the Act requires that the Secretary establish a mechanism to recognize the costs of new medical services or technologies under the payment system established under that subsection, which establishes the system for paying for the operating costs of inpatient hospital services, we do not include capital costs in the add-on payments for a new medical service or technology make new technology add-on payments under the IPPS for capital-related costs. Thus, we believe the operating cost of the aScope™ Duodeno is $1,995.

Based on the information available at the time of this proposed rule, it appears that both aScope™ Duodeno and EXALT™ Model D will be identified by the same ICD–10–PCS code and share the same indication for endoscopy and endoscopic surgery within the duodenum. As we are unable to separately identify these cases to apply two separate payment amounts for these technologies, we are proposing to use a case-weighted average to calculate a single cost that would be used to determine the new technology add-on payment amount for both technologies. To compute the weighted average cost, we summed the total number of projected cases for each of the applicants, which equaled 12,064 (3,750 plus 8,314). Then we divided the number of projected cases for each of the applicants by the total number of cases, which resulted in the following case-weighted percentages: 31 percent for aScope™ Duodeno and 69 percent for EXALT™ Model D. We multiplied the cost per case for the manufacturer specific technology by the case-weighted percentage (0.31 * $1,995 = $620.13 for aScope™ Duodeno and 0.69 * $2,930 = $2,019.23 for EXALT™ Model D). This resulted in a case-weighted average cost of $2,639.36 for both technologies. We are inviting public comments on this proposed case-weighted average, as well as any alternative approaches for determining and applying the new technology add-on payment amount for cases involving these technologies, for FY 2022.

We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of aScope™ Duodeno or EXALT™ Model D would be $1,715.59 for FY 2022 (that is, 65 percent of the case-weighted average cost for both technologies).

We are inviting public comments on whether aScope™ Duodeno meets the cost criterion and our proposal to approve new technology add-on payments for aScope™ Duodeno for FY 2022. We are further inviting public comments on the calculation of the maximum new technology add-on payment amount for the aScope™ Duodeno.

(3) Caption Guidance™

Caption Health, Inc. submitted an application for new technology-add-on payments for Caption Guidance™ for FY 2022. Per the applicant, Caption Guidance™ is an artificial intelligence (AI) guided medical imaging acquisition software system indicated for the acquisition of cardiac ultrasound images. The applicant explained that the system provides real-time guidance during transthoracic echocardiography (2D–TTE) to assist in obtaining anatomically correct and optimized images that represent standard 2D echocardiographic diagnostic views and orientations. The applicant also states that the technology is classified by FDA as software as a medical device (SaMD), so in order to use the software, the Caption Guidance™ system must be installed on a compatible third-party ultrasound system.

Caption Guidance™ is designated as a Breakthrough Device, indicated to assist medical professionals in the acquisition of cardiac ultrasound images, and received FDA De Novo approval on February 7, 2020 for the same indication. The applicant stated that an updated version of the system subsequently received 510(k) clearance under 510(k) number K200755 on April 16, 2020 on an expedited basis due to COVID–19. Per the applicant, an interim version of the software became available on March 17, 2020, though not sold, on an emergency basis to assist sites in responding to the COVID–19 pandemic. According to the applicant, the first version of the technology was released commercially on September 15, 2020 with a first date of sale of September 29, 2020. Therefore, we believe that the newness date for this technology is the date on which Caption Guidance™ became available on the market, September 15, 2020. The item is a Class II medical device assigned to product code QJU with descriptor Image Acquisition And/Or Optimization Guided By Artificial Intelligence. According to the applicant, there are currently no unique ICD–10–PCS codes describing the device. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for a new code to uniquely identify the technology.

With respect to the cost criterion, the applicant searched the CY 2019 Limited Data Set (LDS)—Carrier Standard Analytic File (SAF), 5 percent sample, for beneficiaries receiving limited echocardiography, as described by Current Procedural Terminology (CPT®) code 93308 (Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, for work-up or limited study) with a place of service code 21 (inpatient hospital) or 23.
(emergency department) and the associated inpatient stays. For the applicant, limited echocardiography, the procedure most likely to include Caption Guidance, is not reliably reported in the inpatient setting. As a result, the applicant used a multi-step approach where corresponding inpatient stays were identified in the CY 2019 LDS—Inpatient SAF for the beneficiaries identified in the Carrier SAF. Inpatient stays were identified by matching on the unique beneficiary ID and by matching the carrier claim date of service against the inpatient admission and discharge dates. The applicant counted an inpatient stay if the date of service for CPT code 93308 occurred on or after the inpatient admission date (or during the three days preceding the date of admission), but was also on or before the discharge date of the hospital stay. The applicant eliminated non-inpatient claims and claims with a payment amount less than or equal to zero, as well as claims from hospitals that are not used in the ratessetting process. The applicant summarized the remaining claims by MS–DRG, and by principal diagnosis and MS–DRG. The applicant cross-walked the MS–DRG codes to FY 2021 MS–DRG definitions using the MS–DRG grouper for FY 2021 and identified a list of 461 unique MS–DRGs to which cases representing patients who may be eligible for use of Caption Guidance™ mapped. The applicant also utilized data from current Caption Guidance™ customers to obtain a list of principal diagnoses associated with each MS–DRG. The applicant noted that, because this analysis began with the CY 2019 LDS Carrier SAF, 5 percent sample, the inpatient claims captured underrepresent the total number of inpatient stays in which CPT code 93308 is expected to be performed. The applicant applied the unique MS–DRG and principal diagnosis combinations to all inpatient claims in the CY 2018 and CY 2019 LDS SAF with a discharge date in FY 2019. The applicant then removed any claims where there were no billed charges in revenue centers 0480 (Cardiology-General) and 0483 (Cardiology-Echocardiology). The applicant explained that MS–DRG and principal diagnosis alone are unlikely to be a good proxy for performance of CPT code 93308. The applicant noted that there are charges to revenue centers 0480 and 0483 among nearly 100 percent of cases identified, and that no other revenue centers were billed at such high frequency. The applicant explained that it did not use the FY 2021 MedPAR LDS for this reason, as the dataset does not report charges by revenue center.

The applicant identified 1,932,386 cases mapping to 461 MS–DRGs. Then the applicant standardized the charges and applied the 2-year charge inflation factor used to adjust the outlier threshold determination, which the applicant stated was 10.22 percent. We note that the applicant appears to have used an inflation factor lower than the FY 2021 IPPS/LTC FFS final rule of 13.2 percent (85 FR 59309), which would have resulted in a higher inflated charge figure. The applicant did not remove charges for prior technology as the applicant maintained that no existing technology is comparable to Caption Guidance™.

The applicant then added charges for the new technology. The applicant calculated the technology’s cost per case in a multi-step process. First, the applicant multiplied the cost of Caption Guidance™ by the number of devices under the CQI, then divided the total device cost by the number of devices mapping to 461 MS–DRGs. Then, for each subscribing provider, the applicant identified Medicare inpatient cases that would be eligible for Caption Guidance™ using the criteria and methodology described previously. The applicant then multiplied the number of inpatient cases by 15 percent, which per the applicant is consistent with published evidence that the percent of limited echocardiography cases ranged from 12 to 15 percent of all inpatient echocardiography cases.928 The applicant then added the number of Medicare hospital outpatient cases for CPT code 93308 for each subscribing provider to the estimated inpatient limited echocardiography utilization to estimate total Medicare limited echocardiography by provider. The applicant divided the total Medicare inpatient and outpatient cases receiving limited echocardiography by an average Medicare share of 63 percent, which the applicant estimated by analyzing discharges reporting on ICD–10–PCS codes: B244ZZZ (Ultrasonography of right heart), B245ZZZ (Ultrasonography of left heart), and B246ZZZ (Ultrasonography of right and left heart) from HCUPnet’s Nationwide Inpatient Sample, 2017, to obtain the total limited echocardiography cases. The applicant then divided the total device cost by the total limited echocardiography cases to obtain a provider-specific cost per case, which it then averaged across all subscriber hospitals. Finally, the applicant converted the cost per case to charges per case by dividing the cost per case by the national average cost-to-charge ratio for the cardiology cost center of 0.094 (85 FR 58601).

The applicant calculated a final inflated case-weighted average standardized charge per case of $113,435 and an average case-weighted threshold of $69,197. Because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion. We agree with the applicant that, using the cost per case provided by the applicant, the Caption Guidance™ system would meet the cost criterion and therefore are proposing to approve the Caption Guidance™ system for new technology add-on payments for FY 2022. However, as we note later in this section, because the charge can vary based on utilization of the technology, we would like further information on whether the Caption Guidance™ system would still meet the cost criterion if, for instance, an increase in utilization resulted in a cost per case that is lower than the figure the applicant provided.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of the Caption Guidance™ system is $2,874. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under §412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of the Caption Guidance™ system would be $1,868.10 for FY 2022 (that is 65 percent of the average cost of the technology).

However, we refer the reader to our discussion and request for comments regarding our concerns with respect to determining a cost per case for a technology that utilizes a subscription for its cost, and note that we may consider finalizing a different add-on payment amount after consideration of comments received.

The applicant appears to have used a single list price of Caption Guidance™ per hospital with a cost per case that can vary based on the volume of cases. We are interested in information about...

---

whether the cost per patient varies based on the utilization of the technology by the hospitals. The cost per patient could be skewed by the small number of hospitals utilizing the technology and their low case volumes. It is possible, if hospitals with large patient populations adopt Caption Guidance™, the cost per patient would be significantly lower.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58628), in a similar instance, we stated our understanding that there are unique circumstances to determining a cost per case for a technology that utilizes a subscription for its cost. We continue to welcome comments from the public as to the appropriate method to determine a cost per case for such technologies, including comments on whether the cost per case should be estimated based on subscriber hospital data as described previously, and if so, whether the cost analysis should be updated based on the most recent subscriber data for each year for which the technology may be eligible for the new technology add-on payment.

We invite public comments on whether the Caption Guidance™ system meets the cost criterion and our proposal to approve new technology add-on payments for Caption Guidance™ system for FY 2022, including on whether the newness period for this technology would begin on September 15, 2020.

(4) CERAMENT® G

BONESUPPORT Inc. submitted an application for new technology-add on payments for CERAMENT® G for FY 2022. Per the applicant, CERAMENT® G is an injectable bone-void filler made of calcium sulfate, hydroxyapatite, and gentamicin sulfate indicated for the surgical treatment of osteomyelitis. Per the applicant, this bone graft substitute fills gaps resulting from debridement of infected bone and prevents colonization of sensitive bacteria, promoting bone healing in two ways. The applicant stated that the primary mode of action is for CERAMENT® G to act as a resorbable ceramic bone-void filler intended to fill gaps and voids in the skeleton system created when infected bone is debrided. The applicant also stated that the secondary mode of action is to prevent the colonization of gentamicin-sensitive microorganisms in order to protect bone healing. Per the applicant, CERAMENT® G may eliminate the need to harvest autologous bone, avoiding pain and infection at the donor site.

CERAMENT® G is designated as a Breakthrough Device for use as a bone-void filler as an adjunct to systemic antibiotic therapy and surgical debridement as part of the surgical treatment of osteomyelitis. It has not yet received FDA 510(k) clearance.

According to the applicant, there are no available codes that adequately describe the product CERAMENT® G. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a code to uniquely identify the technology.

With respect to the cost criterion, the applicant used the MS–DRG grouping function within FindACode software in conjunction with the online MS–DRG v37.0 Definitions Manual to identify the appropriate MS–DRGs to which potential cases that may be eligible for treatment with CERAMENT® G would most likely map. The applicant identified the following seven relevant MS–DRGs:

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>DESCRIPTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>464</td>
<td>Wound debridement and skin graft except hand for musculoskeletal system and connective tissue disorders with CC</td>
</tr>
<tr>
<td>493</td>
<td>Lower extremity and humerus procedures except hip, foot and femur with CC</td>
</tr>
<tr>
<td>496</td>
<td>Local excision and removal of internal fixation devices except hip and femur with CC</td>
</tr>
<tr>
<td>498</td>
<td>Local excision and removal internal fixation devices of hip and femur with CC/MCC</td>
</tr>
<tr>
<td>504</td>
<td>Foot procedures with CC</td>
</tr>
<tr>
<td>511</td>
<td>Shoulder, elbow or forearm procedures, except major joint procedures with CC</td>
</tr>
<tr>
<td>516</td>
<td>Other musculoskeletal system and connective tissue O.R. procedures with CC</td>
</tr>
</tbody>
</table>

The applicant conducted a review of ICD–10–PCS codes for procedures that would use CERAMENT® G. For each MS–DRG, the applicant searched for cases reporting a diagnosis code from the Osteomyelitis category in combination with one of the procedure codes listed in the table that follows.
<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>464</td>
<td>0PBK0ZZ</td>
<td>Excision of right ulna, open approach</td>
</tr>
<tr>
<td></td>
<td>0PBL0ZZ</td>
<td>Excision of left ulna, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDF0ZZ</td>
<td>Extraction of right ulna, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDG0ZZ</td>
<td>Extraction of left ulna, open approach</td>
</tr>
<tr>
<td>493</td>
<td>0PBC0ZZ</td>
<td>Excision of right humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PBD0ZZ</td>
<td>Excision of left humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PBF0ZZ</td>
<td>Excision of right humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PG0ZZ</td>
<td>Excision of left humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDF0ZZ</td>
<td>Extraction of right humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDG0ZZ</td>
<td>Extraction of left humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PTC0ZZ</td>
<td>Resection of right humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PTD0ZZ</td>
<td>Resection of left humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PTF0ZZ</td>
<td>Resection of right humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDG0ZZ</td>
<td>Extraction of left humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PCC0ZZ</td>
<td>Extirpation of matter from right humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PCF0ZZ</td>
<td>Extirpation of matter from right humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PCG0ZZ</td>
<td>Extirpation of matter from left humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDC0ZZ</td>
<td>Extraction of right humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDD0ZZ</td>
<td>Extraction of left humeral head, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDF0ZZ</td>
<td>Extraction of right humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDG0ZZ</td>
<td>Extraction of left humeral shaft, open approach</td>
</tr>
<tr>
<td></td>
<td>0QBG0Z</td>
<td>Excision of right tibia, open approach</td>
</tr>
<tr>
<td></td>
<td>0QBH0Z</td>
<td>Excision of left tibia, open approach</td>
</tr>
<tr>
<td></td>
<td>0QBJ0ZZ</td>
<td>Excision of right fibula, open approach</td>
</tr>
<tr>
<td></td>
<td>0QBG0Z</td>
<td>Extirpation of matter from right tibia, open approach</td>
</tr>
<tr>
<td></td>
<td>0QCG0Z</td>
<td>Extirpation of matter from left tibia, open approach</td>
</tr>
<tr>
<td></td>
<td>0QCH0Z</td>
<td>Extirpation of matter from right fibula, open approach</td>
</tr>
<tr>
<td>MS-DRG</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Replace of right wrist bursa and ligament with autologous tissue substitute, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right radius, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left radius, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right carpal, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left carpal, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right pelvic bone, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right pelvic bone with drainage device, percutaneous approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right pelvic bone with drainage device, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left acetabulum, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right pelvic bone, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left pelvic bone, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right acetabulum, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left acetabulum, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right humeral head, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left humeral head, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right humeral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left humeral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right upper femur, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left upper femur, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right femoral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left femoral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of left lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>496</td>
<td>Drainage of right patella, open approach</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>OQ9F0Z2</td>
<td>Drainage of left patella, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB80Z2</td>
<td>Excision of right femoral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB90Z2</td>
<td>Excision of left femoral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB8OZ2</td>
<td>Excision of right lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>OQBC0Z2</td>
<td>Excision of left lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>OQBGOZ2</td>
<td>Excision of right tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>OQBH0Z2</td>
<td>Excision of left tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB10Z2</td>
<td>Excision of right fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>OQBK0Z2</td>
<td>Excision of left fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB60Z2</td>
<td>Excision of right upper femur, open approach</td>
<td></td>
</tr>
<tr>
<td>OQDB0Z2</td>
<td>Extraction of right femoral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>OQDC0Z2</td>
<td>Extraction of left femoral shaft, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB6OZ2</td>
<td>Excision of right tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>OQGH0Z2</td>
<td>Excision of left tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>OQB1OZ2</td>
<td>Excision of right fibula, open approach</td>
<td></td>
</tr>
<tr>
<td>OQDG0Z2</td>
<td>Extraction of right tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>OQDI0Z2</td>
<td>Extraction of left tibia, open approach</td>
<td></td>
</tr>
<tr>
<td>OQTB0Z2</td>
<td>Extraction of right lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>OQDC0Z2</td>
<td>Extraction of left lower femur, open approach</td>
<td></td>
</tr>
<tr>
<td>MS-DRG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>504</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OQBM0Z2</td>
<td>Excision of left tarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OQDL0Z2</td>
<td>Extraction of right tarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OQDM0Z2</td>
<td>Extraction of left tarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OQ9N0Z2</td>
<td>Drainage of right metatarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>OQP00Z2</td>
<td>Drainage of left metatarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>OQBF0Z2</td>
<td>Excision of left metatarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>OQDN0Z2</td>
<td>Extraction of right metatarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OQDF0Z2</td>
<td>Extraction of left metatarsal, open approach</td>
<td></td>
</tr>
<tr>
<td>MS-DRG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0P5K0Z2</td>
<td>Destruction of right ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>0PLK0Z2</td>
<td>Destruction of left ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>0PBK0Z2</td>
<td>Excision of right ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>0PLK0Z2</td>
<td>Excision of left ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>0PDK0Z2</td>
<td>Extraction of right ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>0PLK0Z2</td>
<td>Extraction of left ulna, open approach</td>
<td></td>
</tr>
<tr>
<td>0PH02Z2</td>
<td>Excision of right radius, open approach</td>
<td></td>
</tr>
<tr>
<td>0PB02Z2</td>
<td>Excision of left radius, open approach</td>
<td></td>
</tr>
<tr>
<td>0PH02Z2</td>
<td>Extraction of right radius, open approach</td>
<td></td>
</tr>
<tr>
<td>0PD02Z2</td>
<td>Extraction of left radius, open approach</td>
<td></td>
</tr>
<tr>
<td>0PCH0Z2</td>
<td>Extraction of matter from right radius, open approach</td>
<td></td>
</tr>
</tbody>
</table>
The applicant identified 7,994 cases across the seven MS–DRGs. The applicant then removed charges for prior technology that may be replaced by CERAMENT® G. The applicant conducted a market analysis that identified 3 types of prior technology devices: Poly (methyl methacrylate) (PMMA) manually mixed with antibiotics, PMMA pre-loaded with antibiotics, and calcium sulfate (CaS) mixed with antibiotics. The applicant researched the average sales price (ASP) for major competitors for 5cc and 10cc of each device type and calculated a weighted average cost of $444 per 5cc and $727 per 10 cc. Then the applicant converted costs to charges by weighting the operating cost-to-charge ratios for 3,315 hospitals in the FY 2021 IPPS/LTCH PPS final rule and correction notice impact file by each hospital’s share of the 9,235,824 submitted bills to obtain a national average CCR of 0.2546, of which the inverse is a national-average hospital markup of 393 percent. The applicant then standardized the charges and applied an inflation factor of 13.1 percent, or the 2-year inflation factor used to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule, to update the charges from FY 2019 to FY 2021. We note that the applicant appears to have used the FY 2021 IPPS/LTCH PPS proposed rule inflation factor rather than the 2-year inflation factor from the FY 2021 IPPS/LTCH PPS final rule of 13.2 percent (85 FR 59039), which would have resulted in a higher inflated charge figure. The applicant added charges for the new technology by multiplying the estimated average cost for 5cc and 10cc of CERAMENT® G by the 393 percent hospital charge markup.

The applicant calculated a final inflated case-weighted average standardized charge per case of $107,671 and an average case-weighted threshold of $76,791. Because the final inflated average case-weighted standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that CERAMENT® G meets the cost criterion; and therefore, subject to the technology receiving FDA marketing authorization for use as a bone-void filler as an adjunct to systemic antibiotic therapy and surgical debridement as part of the surgical treatment of osteomyelitis by July 1, 2021, we are proposing to approve CERAMENT® G for new technology add-on payments for FY 2022.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of CERAMENT® G is $6,020 per procedure. Per the applicant, the amount of CERAMENT® G used per patient depends on the location and size of the bone void. The applicant expects that a typical patient will require 5–10cc per procedure, with large and more complex cases requiring higher volumes. The applicant estimated that 70 percent of patients will receive 5cc and 30 percent of patients will receive 10 cc of CERAMENT® G, resulting in a weighted average cost of $6,020 per patient. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of the product CERAMENT® G would be $3,913 for FY 2022 (that is 65 percent of the average cost of the technology).

<table>
<thead>
<tr>
<th>MS-DRG</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>516</td>
<td>0PC10ZZ</td>
<td>Extirpation of matter from left radius, open approach</td>
</tr>
<tr>
<td></td>
<td>0PC20ZZ</td>
<td>Extirpation of matter from right radius, open approach</td>
</tr>
<tr>
<td></td>
<td>0PC30ZZ</td>
<td>Extirpation of matter from left ulna, open approach</td>
</tr>
<tr>
<td></td>
<td>0PC40ZZ</td>
<td>Extirpation of matter from right ulna, open approach</td>
</tr>
<tr>
<td></td>
<td>0PC90ZZ</td>
<td>Extirpation of matter from right clavicle, open approach</td>
</tr>
<tr>
<td></td>
<td>0PCC0ZZ</td>
<td>Extirpation of matter from left clavicle, open approach</td>
</tr>
<tr>
<td></td>
<td>0PCB0ZZ</td>
<td>Extirpation of matter from left clavicle, open approach</td>
</tr>
<tr>
<td></td>
<td>0PDB0ZZ</td>
<td>Extirpation of left clavicle, open approach</td>
</tr>
<tr>
<td></td>
<td>0PB90ZZ</td>
<td>Excision of right clavicle, open approach</td>
</tr>
<tr>
<td></td>
<td>0PBB0ZZ</td>
<td>Excision of left clavicle, open approach</td>
</tr>
<tr>
<td></td>
<td>0PC50ZZ</td>
<td>Extirpation of matter from right scapula, open approach</td>
</tr>
<tr>
<td></td>
<td>0PC60ZZ</td>
<td>Extirpation of matter from left scapula, open approach</td>
</tr>
<tr>
<td></td>
<td>0PD50ZZ</td>
<td>Extraction of right scapula, open approach</td>
</tr>
<tr>
<td></td>
<td>0PD60ZZ</td>
<td>Extraction of left scapula, open approach</td>
</tr>
<tr>
<td></td>
<td>0PB50ZZ</td>
<td>Excision of right scapula, open approach</td>
</tr>
<tr>
<td></td>
<td>0PB60ZZ</td>
<td>Excision of left scapula, open approach</td>
</tr>
<tr>
<td></td>
<td>0PB73ZZ</td>
<td>Excision of right glenoid cavity, percutaneous approach</td>
</tr>
<tr>
<td></td>
<td>0PB74ZZ</td>
<td>Excision of right glenoid cavity, percutaneous endoscopic approach</td>
</tr>
<tr>
<td></td>
<td>0PB83ZZ</td>
<td>Excision of left glenoid cavity, percutaneous approach</td>
</tr>
<tr>
<td></td>
<td>0PB84ZZ</td>
<td>Excision of left glenoid cavity, percutaneous endoscopic approach</td>
</tr>
<tr>
<td></td>
<td>0QB00Z</td>
<td>Excision of right toe phalanx, open approach</td>
</tr>
<tr>
<td></td>
<td>0QBR0ZZ</td>
<td>Excision of left toe phalanx, open approach</td>
</tr>
<tr>
<td></td>
<td>0QDQ0Z</td>
<td>Extraction of right toe phalanx, open approach</td>
</tr>
<tr>
<td></td>
<td>0QDR0Z</td>
<td>Extraction of left toe phalanx, open approach</td>
</tr>
</tbody>
</table>
We are inviting public comments on whether CERAMENT® G meets the cost criterion and our proposal to approve new technology add-on payments for CERAMENT® G for FY 2022, subject to CERAMENT® G receiving FDA marketing authorization for use as a bone-void filler as an adjunct to systemic antibiotic therapy and surgical debridement as part of the surgical treatment of osteomyelitis by July 1, 2021.

(5) EXALT™ Model D Single-Use Duodenoscope

Boston Scientific Corporation submitted an application for new technology-add on payments for EXALT™ Model D Single-Use Duodenoscope (EXALT™) for FY 2022. Per the applicant, EXALT™ is a single-use, flexible duodenoscope indicated for diagnostic and therapeutic treatment of the pancreaticobiliary system during endoscopic retrograde cholangiopancreatography (ERCP) procedures. According to the applicant, the scope is most commonly used to facilitate therapeutic maneuvers such as removal of gallstones from the bile ducts, dilation of strictures in the bile or pancreatic ducts, or to relieve an obstruction by inserting a plastic or metal stent. The applicant states that EXALT™ is intended to eliminate the risk of patient-to-patient transmission of infection related to reprocessing of reusable duodenoscopes.

EXALT™ is designated as a Breakthrough Device, indicated for intended use with a Boston Scientific endoscopic video imaging system for endoscopy and endoscopic surgery within the duodenum, and received FDA 510(k) clearance as a Class II medical device on December 13, 2019 for the same indication. The applicant indicates that this device is the first FDA-cleared single-use duodenoscope in the U.S. According to the applicant, EXALT™ was available on the market immediately after FDA approval. The applicant listed 50 ICD–10–PCS codes that describe ERCP and other procedures in which EXALT™ and other duodenoscopes are used. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a code to uniquely identify the technology.

With respect to the cost criterion, the applicant conducted two analyses based on 100 percent of identified claims and 76 percent of identified claims, both of which are further described later in this section. To identify potential cases where EXALT™ could be utilized, the applicant searched the FY 2019 MedPAR file for the following ICD–10–PCS codes:

BILLING CODE 4120–01–P
For the analysis using 100 percent of cases, the applicant identified a total of 59,966 cases spanning 440 MS–DRGs. The applicant then removed 100 percent of charges associated with the service Medical/Surgical Supplies and Devices for the prior technology. The applicant stated that it does not believe use of EXALT™ will replace any other medical supplies but removed 100 percent of charges associated with service category Medical/Surgical Supply Charge Amount, which included the revenue center code 027x, to be as conservative as possible. The applicant then standardized the charges and applied an inflation factor of 13.2 percent, which is the same inflation factor used by CMS to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule, to update the charges.
endoscopic surgery within the duodenum. Thus, as we are unable to separately identify these cases to apply two separate payment amounts for these technologies, we are proposing to use a case-weighted average to calculate a single cost that would be used to determine the new technology add-on payment amount for both technologies. To compute the weighted average cost, we summed the total number of projected cases for each of the applicants, which equaled 12,064 (3,750 plus 8,314). Then we divided the number of projected cases for each of the applicants by the total number of cases, which resulted in the following case-weighted percentages: 31 percent for aScope™ Duodeno and 69 percent for EXALT™ Model D. We then multiplied the cost per case for the manufacturer specific technology by the case-weighted percentage (0.31 * $1,995 = $620.13 for aScope™ Duodeno and 0.69 * $2,930 = $2,019.23 for EXALT™ Model D). This resulted in a case-weighted average cost of $2,639.36 for both technologies. We are inviting public comments on this proposed case-weighted average, as well as any alternative approaches for determining and applying the new technology add-on payment amount for cases involving these technologies, for FY 2022.

We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of the product EXALT™ Model D Single-Use Duodenoscope or aScope™ Duodeno would be $1,715.59 for FY 2022 (that is 65 percent of the case-weighted average cost of both technologies).

We are further inviting public comments on our calculation of the maximum new technology add-on payment amount for the EXALT™ Model D.

(6) FUJIFILM EP–7000X System

FUJIFILM Corporation submitted an application for new technology-add on payments for FUJIFILM EP–7000X System for FY 2022. The FUJIFILM EP–7000X system is an endoscopic video imaging system used for endoscopic observation, diagnosis, treatment, and image recording in minimally invasive surgeries of abdominal gynecologic and thoracic areas. Per the applicant, this system allows for the visualization of hemoglobin oxygen saturation levels of blood in superficial tissue under a 2D endoscopic image, which helps physicians identify tissue that is not appropriately oxygenated and thus potentially ischemic. The applicant further explains that the technology consists of four components: Video Laparoscope EL–R740M, Processor VP–7000, Light Source BL–7000X, and Image Processing Unit EX–0.

The FUJIFILM EP–7000X system received Breakthrough Device designation for endoscopic observation, diagnosis, treatment, and image recording in patients requiring such procedures on September 17, 2020 and has not yet been granted FDA approval. According to the applicant, there are currently no unique ICD–10–PCS codes describing the system. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a unique code for FY 2022 to identify the technology.

With respect to the cost criterion, the applicant searched the FY 2019 MedPAR claims data file to identify potential cases representing patients who may be eligible for treatment with the EP–7000X System. The applicant identified claims that reported an ICD–10–PCS procedure code for gastrointestinal bypass or hernia repair, which the applicant listed in the following table:
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OD11476</td>
<td>Bypass upper esophagus to stomach with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass upper esophagus to duodenum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass upper esophagus to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass upper esophagus to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11476</td>
<td>Bypass upper esophagus to duodenum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass upper esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass upper esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass upper esophagus to stomach with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147K</td>
<td>Bypass upper esophagus to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11476</td>
<td>Bypass upper esophagus to stomach with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass upper esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass upper esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass upper esophagus to stomach with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147K</td>
<td>Bypass upper esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11476</td>
<td>Bypass upper esophagus to stomach with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass upper esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass upper esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass upper esophagus to stomach with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11447</td>
<td>Bypass middle esophagus to stomach with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass middle esophagus to duodenum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass middle esophagus to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass middle esophagus to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11476</td>
<td>Bypass middle esophagus to duodenum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass middle esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass middle esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass middle esophagus to stomach with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147K</td>
<td>Bypass middle esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11476</td>
<td>Bypass middle esophagus to stomach with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass middle esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass middle esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass middle esophagus to stomach with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11447</td>
<td>Bypass lower esophagus to stomach with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass lower esophagus to duodenum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass lower esophagus to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147B</td>
<td>Bypass lower esophagus to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11476</td>
<td>Bypass lower esophagus to duodenum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD11479</td>
<td>Bypass lower esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>OD1147A</td>
<td>Bypass lower esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
</tbody>
</table>

**Note:** The table represents various surgical procedures involving the esophagus, with specific substitutions and approaches noted. Each code corresponds to a unique surgical procedure as described in the context of medical practices.
<table>
<thead>
<tr>
<th>Code</th>
<th>Procedure Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0D1541A</td>
<td>Bypass esophagus to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1541J</td>
<td>Bypass esophagus to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154K6</td>
<td>Bypass esophagus to stomach with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154K9</td>
<td>Bypass esophagus to duodenum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154KA</td>
<td>Bypass esophagus to jejunum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154KB</td>
<td>Bypass esophagus to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154Z6</td>
<td>Bypass esophagus to stomach, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154Z9</td>
<td>Bypass esophagus to duodenum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154ZA</td>
<td>Bypass esophagus to jejunum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154ZB</td>
<td>Bypass esophagus to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D15479</td>
<td>Bypass stomach to duodenum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1547A</td>
<td>Bypass stomach to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1547B</td>
<td>Bypass stomach to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1547L</td>
<td>Bypass stomach to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154KL</td>
<td>Bypass stomach to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D154Z9</td>
<td>Bypass stomach to duodenum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D19479</td>
<td>Bypass duodenum to duodenum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1947A</td>
<td>Bypass duodenum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1947B</td>
<td>Bypass duodenum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1947L</td>
<td>Bypass duodenum to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194A9</td>
<td>Bypass duodenum to duodenum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KA</td>
<td>Bypass duodenum to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KB</td>
<td>Bypass duodenum to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass duodenum to duodenum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass duodenum to jejunum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass duodenum to ileum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZA</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZB</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194ZL</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JA</td>
<td>Bypass jejunum to jejunum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JB</td>
<td>Bypass jejunum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194JL</td>
<td>Bypass jejunum to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194KL</td>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194Z9</td>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D194L9</td>
<td>Bypass jejunum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>Bypass jejunum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to ileum, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to cecum, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to sigmoid colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass jejunum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ascending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to descending colon, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to anus with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to ileum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to rectum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Bypass ileum to cecum with synthetic substitute, percutaneous endoscopic approach</td>
<td></td>
</tr>
<tr>
<td>Page</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>0D1H4ZI</td>
<td>Bypass cecum to cecum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1H4ZK</td>
<td>Bypass cecum to ascending colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1H4ZL</td>
<td>Bypass cecum to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1H4ZM</td>
<td>Bypass cecum to descending colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1H4ZN</td>
<td>Bypass cecum to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1H4ZP</td>
<td>Bypass cecum to rectum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1K4ZK</td>
<td>Bypass ascending colon to ascending colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1K4ZL</td>
<td>Bypass ascending colon to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1K4ZM</td>
<td>Bypass ascending colon to descending colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1K4ZN</td>
<td>Bypass ascending colon to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1K4ZP</td>
<td>Bypass ascending colon to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZK</td>
<td>Bypass ascending colon to ascending colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZL</td>
<td>Bypass ascending colon to transverse colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZM</td>
<td>Bypass ascending colon to descending colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZN</td>
<td>Bypass ascending colon to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZP</td>
<td>Bypass ascending colon to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KL</td>
<td>Bypass ascending colon to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KM</td>
<td>Bypass ascending colon to descending colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KN</td>
<td>Bypass cecum to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KP</td>
<td>Bypass cecum to rectum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZL</td>
<td>Bypass ascending colon to transverse colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZM</td>
<td>Bypass ascending colon to descending colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZN</td>
<td>Bypass ascending colon to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZP</td>
<td>Bypass ascending colon to rectum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KL</td>
<td>Bypass transverse colon to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KM</td>
<td>Bypass transverse colon to sigmoid colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KN</td>
<td>Bypass transverse colon to descending colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4KP</td>
<td>Bypass transverse colon to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZL</td>
<td>Bypass transverse colon to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZM</td>
<td>Bypass transverse colon to descending colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZN</td>
<td>Bypass transverse colon to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1L4ZP</td>
<td>Bypass transverse colon to rectum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZK</td>
<td>Bypass sigmod to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZL</td>
<td>Bypass sigmod to rectum with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZN</td>
<td>Bypass sigmod to sigmoid colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZP</td>
<td>Bypass sigmod to rectum with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4KL</td>
<td>Bypass descending colon to sigmoid colon with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4KM</td>
<td>Bypass descending colon to sigmoid colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4KN</td>
<td>Bypass descending colon to sigmoid colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4KP</td>
<td>Bypass descending colon to rectum with nonautologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZL</td>
<td>Bypass descending colon to transverse colon with autologous tissue substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZM</td>
<td>Bypass descending colon to transverse colon with synthetic substitute, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZN</td>
<td>Bypass descending colon to sigmoid colon, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4ZP</td>
<td>Bypass descending colon to rectum, percutaneous endoscopic approach</td>
</tr>
<tr>
<td>0D1M4KL</td>
<td>Repair abdominal wall, percutaneous approach</td>
</tr>
</tbody>
</table>
The applicant stated that it also assumed a 3 percent usage rate, a 5.5 percent interest rate, a 0 percent maintenance factor (as the maintenance fee is built into the cost of the equipment), and a 5-year useful life. The applicant multiplied the machine cost per minute by the number of minutes of procedure time, which the applicant estimated to be 4.5 hours or 270 minutes, to obtain the per patient cost. The applicant then converted the cost to charges by dividing the cost per patient by the national average cost-to-charge ratio for supplies and equipment (0.297).

Based on the cost information, the applicant calculated a final inflated case-weighted average standardized charge per case of $106,603 and an average case-weighted threshold of $80,392. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion.

As noted previously, because section 1886(d)(5)(K)(i) of the Act requires that the Secretary establish a mechanism to recognize the costs of new medical services or technologies under the payment system established under that subsection, which establishes the system for paying for the operating costs of inpatient hospital services, we do not include capital costs in the add-on payments for a new medical service or technology or make new technology add-on payments for operating costs (72 FR 47307 through 47308). However, we are inviting public comments on whether the FUJIFILM EP–7000X System has any operating costs. If the FUJIFILM EP–7000X System does have operating costs, since it appears to meet the cost criterion as previously noted, we are proposing to approve new technology add-on payments for only the operating costs of the FUJIFILM EP–7000X System for FY 2022, subject to the technology receiving FDA marketing authorization for endoscopic observation, diagnosis, treatment, and image recording in patients requiring such procedures by July 1, 2021.

(7) Harmony™ Transcatheter Pulmonary Valve (TPV) System

Medtronic submitted an application for new technology-add-on payments for Harmony™ Transcatheter Pulmonary Valve (TPV) System ("Harmony™") for FY 2022. The system consists of a bioprosthetic heart valve developed from porcine pericardial tissue mounted on self-expanding nitinol struts sewn to a polyester fabric. According to the applicant, Harmony™ is implanted in the patient’s heart between the right ventricle and the bifurcation of the pulmonary arteries to treat patients with congenital heart disease who are indicated for a pulmonary valve replacement. The applicant states that Harmony™ is the first transcatheter pulmonary valve that is designed to treat the patient’s condition at the native site of the pulmonary valve without a pre-existing valve conduit or pre-existing bioprosthetic valve.

The Harmony™ TPV System received designation as a Breakthrough Device on
May 1, 2019, with the indication for the treatment of symptomatic severe pulmonary regurgitation in patients with a surgically-repaired right ventricular outflow tract. The applicant anticipates receiving 510(k) clearance for Class III medical device by June 2021. Additionally, the applicant noted that the proposed indication for the pending FDA marketing authorization is more expansive than the indication for the FDA Breakthrough Device status, to include patients who have had a prior transcatheter intervention. We note that under the eligibility criteria for approval under the alternative pathway for certain transformative new devices, only the use of the Harmony™ Transcatheter Pulmonary Valve (TPV) System for the treatment of symptomatic severe pulmonary regurgitation in patients with a surgically-repaired right ventricular outflow tract, and the FDA Breakthrough Device designation it received for that use, are relevant for purposes of the new technology add-on payment application for FY 2022.

According to the applicant, there are currently no ICD–10–PCS codes describing the Harmony™ Transcatheter Pulmonary Valve (TPV). The applicant noted that the Harmony™ TPV System is currently reported within table 02R of the ICD–10 PCS tabular list (body part value Pulmonary Valve, approach value Percutaneous, device value as appropriate, and qualifier value No Qualifier). Per the applicant, this same code also applies to existing technology for transcatheter valve replacement within a conduit or a pre-existing prosthetic valve. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a unique code for FY 2022 to identify the technology.

With respect to the cost criterion, the applicant searched the FY 2019 MedPAR dataset for claims representing patients with congenital diagnoses who received a surgical valve or a transcatheter procedure. The applicant identified claims across five MS–DRGs after excluding cases with outlier payments. Per the applicant, 6 percent of cases were in MS–DRG 216, 24 percent of cases were in MS–DRG 219, 12 percent of cases were in MS–DRG 220, 26 percent of cases were in MS–DRG 266, and 32 percent of cases were in MS–DRG 267. The applicant did not provide case counts because the volume in each MS–DRG was fewer than 11 cases.

Next, the applicant removed charges for the prior technology and standardized the charges. The applicant described the charges for the technology that would be replaced as “the sum of the medical-surgical pacemaker amount, the intraocular lens amount, the other implants amount, and the investigational device amount.” The applicant also removed charges related to the prior technology, which it described as “the sum of the medical surgical supplies amount, the durable medical equipment amount, and the used durable medical amount minus the prior technology charges.” The applicant then applied an inflation factor of 13.1 percent, which per the applicant is the same inflation factor used by CMS to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule, to update the charges from FY 2019 to FY 2021. We note that the applicant appears to have used the FY 2021 IPPS/LTCH PPS proposed rule inflation factor rather than the 2-year inflation factor from the FY 2021 IPPS/LTCH PPS final rule of 13.2 percent (85 FR 59039), which would have resulted in a higher inflated charge figure. The applicant added charges for the new technology by dividing the cost of the Harmony™ TPV by the national CCR for implantable devices, which is 0.293 (85 FR 58601). The applicant also added charges related to the new technology, which the applicant estimated to be similar to the charges related to transcatheter procedures within MS–DRGs 266–267.

The applicant calculated a final inflated case-weighted average standardized charge per case of $257,970 and an average case-weighted threshold of $349,037. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion. We are concerned that the applicant’s charge threshold analysis utilized a small sample of 55 cases, given that the applicant projected a case volume of over 1,000 cases for FY 2022. Subject to the applicant adequately addressing this concern, we would agree that the technology meets the cost criterion and therefore are proposing to approve Harmony™ Transcatheter Pulmonary Valve (TPV) System for new technology add-on payments for FY 2022, subject to FDA marketing authorization of Harmony™ Transcatheter Pulmonary Valve (TPV) System by July 1, 2021 for the treatment of patients with severe pulmonary regurgitation who have had prior intervention on the right ventricular outflow tract and are clinically indicated for a pulmonary valve replacement. We are also inviting public comment on whether the costs of the Harmony™ TPV and Harmony™ transcatheter pulmonary valve delivery and loading system reflect use of capital equipment.

We are inviting public comments on whether the Harmony™ Transcatheter Pulmonary Valve (TPV) System meets the cost criterion and our proposal to approve new technology add-on payments for Harmony™ Transcatheter Pulmonary Valve (TPV) System for FY 2022, subject to FDA marketing authorization of Harmony™ Transcatheter Pulmonary Valve (TPV) System by July 1, 2021 for the treatment of patients with severe pulmonary regurgitation who have had prior intervention on the right ventricular outflow tract and are clinically indicated for a pulmonary valve replacement. We are also inviting public comment on whether the costs of the Harmony™ TPV and Harmony™ transcatheter pulmonary valve delivery and loading system reflect use of capital equipment.

(8) Neovasc Reducer™

Neovasc Inc. submitted an application for new technology-add on payments for the Neovasc Reducer™ System for FY 2022. The Neovasc Reducer™ System is a permanent implant inserted percutaneously into the coronary sinus and indicated for relief of angina symptoms in patients with refractory
angina. According to the applicant, the device creates a permanent and controlled narrowing of the coronary sinus to improve perfusion to ischemic myocardium with its hourglass shape. Per the applicant, the focal narrowing works to generate a pressure gradient and redistribute blood flow to ischemic areas of the heart.

The Neovasc Reducer™ System was designated as a Breakthrough Device on October 10, 2018, indicated for use in patients with refractory angina pectoris despite guideline-directed medical therapy who are unsuitable for revascularization by coronary artery bypass grafting (CABG) or by percutaneous coronary intervention (PCI), and anticipates receiving Pre-Market Approval as a Class III medical device in the first half of 2021.

According to the applicant, there are no unique ICD–10–PCS procedure codes to report the implantation of the device; however, the applicant noted that facilities could report the insertion of the Reducer™ System with ICD–10–PCS code 02H43DZ (Injection of intraluminal device into coronary vein, percutaneous approach). Similarly, the applicant indicated that there are no unique ICD–10–CM diagnosis codes to report refractory angina; however, facilities might use ICD–10–CM diagnosis codes I20.8 ’Other forms of angina pectoris’ or I20.9 ’Angina pectoris, unspecified’ to report refractory angina. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval for a new ICD–10–PCS procedure code for the implantation of the device and a new ICD–10–CM diagnosis code for refractory angina for FY 2022 to identify the technology.

With respect to the cost criterion, the applicant searched the FY 2019 MedPAR dataset for claims with an ICD–10–PCS procedure code of 02L73DK (Occlusion of left atrial appendage with intraluminal device, percutaneous approach) and 027034Z (Dilation of coronary artery, one artery with drug-eluting intraluminal device, percutaneous approach).

The applicant explained that patients who may be eligible for the Neovasc Reducer™ System would be those diagnosed with refractory angina. The applicant further explained that because there is by definition no treatment for refractory angina, cases admitted to inpatient hospital with a diagnosis of refractory angina were almost exclusively assigned to medical/SRDRGs that do not resemble a cardiac procedure in terms of clinical or resource use.

Per the applicant, Left Atrial Appendage (LAA) Occlusion is most closely related to the new technology, as it is a venous procedure using a permanent implant that is generally performed on a stable patient and requires a 1- to 2-day hospital stay. The applicant used the refractory angina cases to establish the eligible case count and the ratio between cases “with complication and comorbidity (CC)” and “with major complication and comorbidity (MCC)” versus cases “without CC/MCC”. The applicant stated that it used this ratio to weight the MS–DRGs to which the LAA procedure cases mapped, as the refractory angina patient population differs in terms of comorbidities and severity of illness compared to the patient population receiving LAA.

The applicant identified a total of 16,182 LAA cases mapping to MS–DRGs 273 or 274. The applicant then removed the implantable device charges for the prior technology. The applicant also removed charges for cardiac catheterization, the operating room, and supplies and equipment. The applicant then standardized the charges and applied an inflation factor of 13.2 percent, which is the same inflation factor used by CMS to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule (85 FR 89039), to update the charges from FY 2019 to FY 2021. The applicant added charges for the new technology, which it calculated by dividing the cost of the Reducer device by the national cost-to-charge ratio for implantable devices (0.239). The applicant noted that the charges for the new technology were not inflated.

As noted previously, the refractory angina patient population differs in terms of comorbidities and severity of illness compared to the patient population receiving LAA. Therefore, the applicant adjusted the volume weights for MS–DRGs 274/273 to reflect the refractory angina population. The applicant extracted cases with an ICD–10–CM diagnosis code I20.8 ’Other forms of angina pectoris’ and I20.9 (Angina pectoris, unspecified) from the FY 2019 MedPAR dataset. The applicant identified 9,548 cases with a refractory angiography diagnosis spread across 513 MS–DRGs. The applicant divided cases into two groups—those mapping to an MS–DRG with a CC or MCC designation and those mapping to an MS–DRG without CC or MCC. The applicant found that the ratio of cases with CC/MCC to cases without CC/MCC was 61/39. The applicant applied this ratio to the refractory angina cases assigned to MS–DRGs with no CC/MCC designation and filled in the volumes by MS–DRG (39 percent of refractory angina cases were assigned to MS–DRG 274 and 61 percent to MS–DRG 273).

The applicant calculated a final inflated case-weighted average standardized charge per case of $141,304 and an average case-weighted threshold of $127,659. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that the Neovasc Reducer™ System meets the cost criterion and therefore are proposing to approve the Neovasc Reducer™ System for new technology add-on payments for FY 2022, subject to the technology receiving FDA marketing authorization for use in patients with refractory angina pectoris despite guideline-directed medical therapy who are unsuitable for revascularization by CABG or by PCI by July 1, 2021.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of the Neovasc Reducer™ System is $15,000. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under §412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of the Neovasc Reducer™ System would be $9,750 for FY 2022 (that is 65 percent of the average cost of the technology).

We are inviting public comments on whether the Neovasc Reducer™ System meets the cost criterion and our proposal to approve new technology add-on payments for Neovasc Reducer™ System for FY 2022, subject to the Neovasc Reducer™ system receiving FDA marketing authorization by July 1, 2021 for use in patients with refractory angina pectoris guideline-directed medical therapy who are unsuitable for revascularization by coronary artery bypass grafting (CABG) or by percutaneous coronary intervention (PCI).

(9) Phagenyx® System

Phagenesis Ltd. submitted an application for new technology-add on payments for Phagenyx® System for FY 2022. The Phagenyx® system (Phagenyx® System) is a neurostimulation device for the treatment of neurogenic dysphagia, which is often seen after
stroke, traumatic brain injury, or prolonged mechanical ventilation. Per the applicant, the system is comprised of a sterile single-use per patient catheter, introduced nasally and extending as far as the patient’s stomach; and a base station, described as a touch screen user interface that facilitates the optimization of stimulation levels and stores patient and treatment information. Per the applicant, treatment involves the use of electric pulses to stimulate sensory nerves in the oropharynx.

The Phagenyx® system received Breakthrough Device designation on December 4, 2019 and anticipates receiving De Novo FDA clearance by the second quarter of CY 2021. Per the applicant, the FDA granted Breakthrough Device designation for use in treating neurogenic dysphagia in adult tracheotomized patients weaned from ventilation, and the FDA Breakthrough Device designation it received for that use, are relevant for purposes of the new technology add-on payment application for FY 2022, unless an expanded Breakthrough Designation that aligns with FDA labelling is also granted by the FDA marketing authorization deadline.

According to the applicant, there are currently no unique ICD–10–PCS codes describing the Phagenyx® system. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a unique code for FY 2022 to identify the technology.

With respect to the cost criterion, the applicant performed two analyses based on its Breakthrough Designation indication and the broader proposed indication. For both scenarios, the applicant used the FY 2019 MedPAR dataset to assess the MS–DRGs to which potential cases representing patients who may be eligible for the Phagenyx® System would most likely map. Under the first analysis based on the applicant’s Breakthrough designation indication, the applicant searched for claims reporting an ICD–10–PCS procedure code for tracheostomy in combination with an ICD–10–CM diagnosis code for dysphagia.

<table>
<thead>
<tr>
<th>Tracheostomy ICD-10-PCS Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0B110F4</td>
</tr>
<tr>
<td>0B113F4</td>
</tr>
<tr>
<td>0B114F4</td>
</tr>
<tr>
<td>0BW10FZ</td>
</tr>
<tr>
<td>0BW13FZ</td>
</tr>
<tr>
<td>0BW14FZ</td>
</tr>
<tr>
<td>0BW17FZ</td>
</tr>
<tr>
<td>0BW18FZ</td>
</tr>
<tr>
<td>0BW1XFZ</td>
</tr>
<tr>
<td>0B21XFZ</td>
</tr>
</tbody>
</table>

The applicant identified 8,181 cases spanning 170 MS–DRGs. Per the applicant, 69 percent of the discharges were in MS–DRGs 003 and 004, which is consistent with the applicant’s assertion that cases involving tracheostomized patients typically map to these MS–DRGs.

Under the second analysis, based on the applicant’s proposed broader indication, the applicant searched for claims reporting an ICD–10–CM diagnosis code for dysphagia, then excluded claims reporting an ICD–10–CM code for CNS disease. The applicant identified 390,328 cases spanning 722 MS–DRGs.
Under both analyses, the applicant did not remove any charges for prior technology. The applicant standardized the charges and applied an inflation factor of 13.2 percent, or the 2-year inflation factor used to update the outlier threshold in the FY 2021 IPPS/LTCF final rule (85 FR 89039), to update the charges from FY 2019 to FY 2021. The applicant then added charges for the Phagenyx® System by dividing the cost by the national cost-to-charge ratio for supplies and equipment of 0.297 (85 FR 58601).

Under the analysis based on the applicant’s Breakthrough Designation indication, the applicant calculated a final inflated case-weighted average standardized charge per case of $331,860 and an average case-weighted threshold of $276,624. Under the analysis based on the applicant’s broader proposed indication, the applicant calculated a final inflated case-weighted average standardized charge per case of $104,346 and an average case-weighted threshold of $68,799. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount under both analyses, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that Phagenyx® System meets the cost criterion and therefore are proposing to approve Phagenyx® System for new technology add-on payments for FY 2022, subject to the technology receiving FDA marketing authorization for the indication corresponding to the Breakthrough Device designation by July 1, 2021. As noted previously, only the use of the Phagenyx® System for the treatment of neurogenic dysphagia in adult tracheotomized patients weaned from ventilation, and the FDA Breakthrough Device designation it received for that use, are relevant for purposes of the new technology add-on payment application for FY 2022.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of the Phagenyx® System is $5,000. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of the Phagenyx® System would be $3,250 for FY 2022 (that is, 65 percent of the average cost of the technology).

We are inviting public comments on whether the Phagenyx® System meets the cost criterion and our proposal to approve new technology add-on payments for the Phagenyx® System for FY 2022 for the indication corresponding to the Breakthrough Device designation, subject to the Phagenyx® System receiving FDA marketing authorization for that indication by July 1, 2021.

(10) PRFCF

Cerus Corporation submitted an application for the Phagenyx® System by dividing the cost by the national cost-to-charge ratio for supplies and equipment of 0.297 (85 FR 58601). We agree with the applicant that Phagenyx® System meets the cost criterion and therefore are proposing to approve Phagenyx® System for new technology add-on payments for FY 2022. PRFCF (pathogen reduced cryoprecipitated fibrinogen complex) is a blood product indicated for the treatment for fibrinogen deficiency-related bleeding, including massive hemorrhage. Per the applicant, this blood product is useful in emergency departments and operating rooms due to its 5-day shelf life at room temperature. The applicant stated that the 5-day shelf life of the blood product makes it immediately available in a ready-to-transfuse form as a fibrinogen source and thereby provides a significant benefit for patients with massive hemorrhage in a real time-critical fashion that is not achievable with other existing fibrinogen replacement products.

PRFCF is designated as a Breakthrough Device, indicated for control of massive bleeding associated with fibrinogen (Fg) deficiency, and received FDA premarket approval (PMA) on November 24, 2020 for the following indications: (1) Treatment and control of bleeding, including massive hemorrhage, associated with fibrinogen deficiency; (2) control of bleeding when recombinant and/or specific virally inactivated preparations of factor XIII or von Willebrand factor (vWF) are not available; (3) second-line therapy for von Willebrand disease (vWD); and (4) control of uremic bleeding after other treatment modalities have failed. The applicant stated that the product will not be available for sale until the second quarter of CY 2021 due to manufacturing lead time for system components as well as validations and quality control analyses that must be completed by the manufacturing facilities. We note that, under the eligibility criteria for approval under the alternative pathway for certain

<table>
<thead>
<tr>
<th>Dysphagia ICD-10-PCS Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R13.10</td>
<td>Unspecified</td>
</tr>
<tr>
<td>R13.12</td>
<td>Oropharyngeal phase</td>
</tr>
<tr>
<td>R13.13</td>
<td>Pharyngeal phase</td>
</tr>
<tr>
<td>R13.14</td>
<td>Pharyngoesophageal phase</td>
</tr>
<tr>
<td>R13.19</td>
<td>Other dysphagia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CNS Disease ICD-10-CM Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G10.x</td>
<td>Huntington’s disease</td>
</tr>
<tr>
<td>G11.1x</td>
<td>Friedreich’s ataxia</td>
</tr>
<tr>
<td>G12.x</td>
<td>Spinal muscular atrophy and related syndromes</td>
</tr>
<tr>
<td>G20.x</td>
<td>Parkinson’s disease</td>
</tr>
<tr>
<td>G30xx</td>
<td>Alzheimer’s disease</td>
</tr>
<tr>
<td>G31.83x</td>
<td>Lewy body disease</td>
</tr>
<tr>
<td>G35xx</td>
<td>Multiple sclerosis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dysphagia ICD-10-PCS Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R13.10</td>
<td>Unspecified</td>
</tr>
<tr>
<td>R13.12</td>
<td>Oropharyngeal phase</td>
</tr>
<tr>
<td>R13.13</td>
<td>Pharyngeal phase</td>
</tr>
<tr>
<td>R13.14</td>
<td>Pharyngoesophageal phase</td>
</tr>
<tr>
<td>R13.19</td>
<td>Other dysphagia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CNS Disease ICD-10-CM Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G10.x</td>
<td>Huntington’s disease</td>
</tr>
<tr>
<td>G11.1x</td>
<td>Friedreich’s ataxia</td>
</tr>
<tr>
<td>G12.x</td>
<td>Spinal muscular atrophy and related syndromes</td>
</tr>
<tr>
<td>G20.x</td>
<td>Parkinson’s disease</td>
</tr>
<tr>
<td>G30xx</td>
<td>Alzheimer’s disease</td>
</tr>
<tr>
<td>G31.83x</td>
<td>Lewy body disease</td>
</tr>
<tr>
<td>G35xx</td>
<td>Multiple sclerosis</td>
</tr>
</tbody>
</table>

Under both analyses, the applicant did not remove any charges for prior technology. The applicant standardized the charges and applied an inflation factor of 13.2 percent, or the 2-year inflation factor used to update the outlier threshold in the FY 2021 IPPS/LTCF final rule (85 FR 89039), to update the charges from FY 2019 to FY 2021. The applicant then added charges for the Phagenyx® System by dividing the cost by the national cost-to-charge ratio for supplies and equipment of 0.297 (85 FR 58601).
transformative new devices, only the use of PRCFC for the control of massive bleeding associated with fibrinogen (Fg) deficiency, and the FDA Breakthrough Device designation it received for that use, are relevant for purposes of the new technology add-on payment application for FY 2022.

According to the applicant, there are currently no unique ICD–10–PCS codes that accurately identify the transfusion of this product. The applicant stated while there are many ICD–10–PCS codes to describe the transfusion of traditional nonautologous plasma cryoprecipitate, these codes do not apply to this product. The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a unique code for FY 2022 to identify the technology.

With respect to the cost criterion, the applicant searched the FY 2019 MedPAR dataset for cases reporting an ICD–10–PCS procedure code for nonautologous plasma cryoprecipitate. The applicant identified 8,553 cases spanning over 369 MS–DRGs.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9023M1</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into Peripheral vein, open approach</td>
</tr>
<tr>
<td>9023M2</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into peripheral vein, percutaneous approach</td>
</tr>
<tr>
<td>9024M1</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into central vein, open approach</td>
</tr>
<tr>
<td>9024M2</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into Central vein, percutaneous approach</td>
</tr>
<tr>
<td>9025M1</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into peripheral artery, open approach</td>
</tr>
<tr>
<td>9025M2</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into peripheral artery, percutaneous approach</td>
</tr>
<tr>
<td>9026M1</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into central artery, open approach</td>
</tr>
<tr>
<td>9026M2</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into central artery, percutaneous approach</td>
</tr>
<tr>
<td>9027M1</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into products of conception, circulatory, percutaneous approach</td>
</tr>
<tr>
<td>9027M2</td>
<td>Transfusion of nonautologous plasma cryoprecipitate into products of conception, circulatory, via natural or artificial open approach</td>
</tr>
</tbody>
</table>

Per the applicant, the top 5 MS–DRGs were 219 (Cardiac Valve and Other Major Cardiothoracic Procedures Without Cardiac Catheterization with MCC), 220 (Cardiac Valve and Other Major Cardiothoracic Procedures Without Cardiac Catheterization with CC), 671 (Septicemia or Severe Sepsis Without Mv >96 Hours with MCC), 003 (ECMO or Tracheostomy with Mv >96 Hours Or Principal Diagnosis Except Face, Mouth And Neck With Major O.R. Procedure), and 216 (Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC) and accounted for 34 percent of all cases. The applicant then removed charges for the technology being replaced. Per the applicant, PRCFC would replace the current nonautologous plasma cryoprecipitate billed with a blood revenue code. The applicant explained that it could not separate nonautologous plasma cryoprecipitate from other blood charges and therefore removed all charges from the blood department. The applicant then standardized the charges and applied 2-year outlier inflation factor of 13.2 percent used to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59039). To estimate the cost of the technology, the applicant multiplied the sale price of PRCFC by an average of 12.9 units of cryoprecipitate required per patient, which the applicant asserted as equivalent to 5.2 grams of fibrinogen based on a recent study in adult cardiac surgery patients with clinically significant bleeding and fibrinogen deficiency.930 The applicant estimated an average per-patient cost of $3,900, which the applicant converted to charges using the national cost-to-charge ratio for blood and blood products (0.271) from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601). The applicant indicated that the outlier inflation factor was not applied to charges for PRCFC.

The applicant calculated a final inflated case-weighted average standardized charge per case of $299,895 and an average case-weighted threshold of $183,897. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that PRCFC meets the cost criterion and therefore are proposing to approve PRCFC for new technology add-on payments for FY 2022 when used for the control of massive bleeding associated with fibrinogen (Fg) deficiency. Based on preliminary information from the applicant at the time of this proposed rule, the cost of PRCFC is $750 per gram × 5.2 grams for the amount of $3,900 per patient. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of PRCFC would be $2,535 per patient for FY 2022 (that is, 65 percent of the average cost of the technology).

We are inviting public comments on whether PRCFC meets the cost criterion and our proposal to approve new technology add-on payments for PRCFC for FY 2022 when used for the control of massive bleeding associated with fibrinogen (Fg) deficiency.

(11) RECELL® Autologous Cell Harvesting Device

Avita Medical submitted an application for new technology-add-on payments for RECELL® Autologous Cell Harvesting Device (RECELL®). The device is a standalone, single-use, battery-powered device used to process an autologous skin cell suspension for the treatment of acute thermal burn wounds. Per the applicant, the purpose of the device is to assist with harvesting a small graft from the patient’s healthy skin and immediately processing into an autologous skin cell suspension which is then immediately applied to the patient’s burn wound following surgical preparation of the acute thermal burn wound. The applicant describes the device components as including a mechanical scraping tray, wells for incubating the donor graft with a proprietary enzyme solution, a rinsing well, a cell strainer, a spray applicator as well as buttons for “self-test”, and “run.”

RECELL® was granted Expedited Access Pathway (EAP) by FDA (and is therefore considered part of the Breakthrough Devices Program by

930 Callum J. et al. (2019). Effect of fibrinogen concentrate vs cryoprecipitate on blood component
FDA on December 10, 2015 with the indication for use at the patient’s point-of-care for preparation of an autologous epithelial cell suspension to be applied to a prepared wound bed; under the supervision of a healthcare professional, the suspension is used to achieve epithelial regeneration for definitive closure of burn injuries, particularly in patients having limited availability of donor skin for autografting. RECELL received FDA premarket approval (PMA) on September 20, 2018 with the indication for use listed as indicated for the treatment of acute thermal burn wounds in patients 18 years of age and older. Since the narrower indication for which the technology received PMA is included within the scope of the EAP indication, it appears that the PMA indication is appropriate for new technology add-on payment under the alternative pathway criteria. Per the applicant, RECELL was available for sale upon FDA approval, albeit on a very limited basis primarily to burn centers involved with the clinical trials. According to the applicant, new ICD–10–PCS codes that are specific to RECELL were created effective October 1, 2019. Per the applicant, the first three characters of these codes are “0HR,” followed by a fourth character signifying which body part is impacted, then “X72” for the final three characters.

With regard to the newness criterion, we believe that the beginning of the newness period for RECELL commences from the date of approval by the FDA on September 20, 2018, as the applicant indicated the technology was available for sale from that date. Because the 3-year anniversary date of the entry of RECELL onto the U.S. market (September 20, 2021) will occur in FY 2021, we do not believe that the device is eligible for new technology add-on payments for FY 2022. Accordingly, we are proposing to disapprove RECELL Autologous Cell Harvesting Device for new technology add-on payments for FY 2022. We are inviting public comments on our proposal to disapprove new technology add-on payments for the RECELL Autologous Cell Harvesting Device for FY 2022, including on whether the technology meets the newness criterion.

We also present the applicant’s analysis of the cost criterion for this application. With regard to the cost criterion, the applicant searched the FY 2019 MedPAR dataset for cases representing patients who may be eligible for treatment with RECELL. The applicant noted that the FY 2019 MedPAR dataset did not contain the ICD–10–PCS code 0HR_X72 (Skin Replacement on the _____, Autologous Tissue Substitute, using Cell Suspension Technique) that identify RECELL procedures because the code was first effective on October 1, 2019 after the closing date for the FY 2019 file. For purposes of this application, the applicant searched for cases reporting ICD–10–PCS codes 0HR_X73 (Skin Replacement on the ______, Autologous Tissue Substitute, Full Thickness) and 0HR_X74 (Skin Replacement on the ________, Autologous Tissue Substitute, Partial Thickness) which describe skin graft procedures used to treat burn injuries. The applicant highlighted the potential codes in between using the following table:

<table>
<thead>
<tr>
<th>Character 1: O Medical and Surgical</th>
<th>Approach</th>
<th>Device</th>
<th>Qualifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Character 2: H Skin and Breast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Character 3: R Operation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Body Part</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 Skin, Scalp</td>
<td>X External</td>
<td>7 Autologous Tissue Substitute</td>
<td>2 Cell Suspension Technique</td>
</tr>
<tr>
<td>1 Skin, Face</td>
<td></td>
<td></td>
<td>3 Full Thickness</td>
</tr>
<tr>
<td>2 Skin, Right Ear 3 Skin, Left Ear</td>
<td></td>
<td></td>
<td>4 Partial Thickness</td>
</tr>
<tr>
<td>4 Skin, Neck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Skin, Chest</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Skin, Back</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Skin, Abdomen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Skin, Buttock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Skin, Perineum A Skin, Inguinal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Skin, Right Upper Arm C Skin, Left</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Arm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Skin, Right Lower Arm E Skin, Left</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Arm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Skin, Right Hand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Skin, Left Hand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Skin, Right Upper Leg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J Skin, Left Upper Leg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K Skin, Right Lower Leg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L Skin, Left Lower Leg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M Skin, Right Foot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N Skin, Left Foot</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Per the applicant, skin grafts for burn procedures, including RECELL®, procedures, are assigned to MS–DRGs 927, 928, and 929 in Major Diagnostic Category (MDC) 22 (Burns). No other MS–DRGs or MDCs were considered because RECELL® is only indicated for acute thermal burns. The applicant presented four analyses based on patient cases with increasingly conservative inputs to demonstrate that RECELL® meets the cost criterion. The applicant indicated that it varied the combination of the 2-year inflation factor from the FY 2021 IPPS/LTCH PPS final rule and charges for the new technology in each analysis.

For all four scenarios, the applicant calculated the average charge per case for each MS–DRG and then standardized the charges. The applicant did not remove any charges for the technology being replaced, as the applicant asserted that RECELL® is not replacing a technology. However, the applicant removed charges to account for a reduced length of stay because of utilizing RECELL®. The applicant applied the 2-year outlier inflation factor of 13.2 percent from the FY 2021 IPPS/LTCH PPS final rule (85 FR 59039), to update the charges from FY 2019 to FY 2021 for two analyses. To provide a conservative calculation, the applicant submitted two additional analyses that did not apply an inflation factor to standardized charges.

The applicant added charges for the new technology after dividing the cost of RECELL® by the national average cost-to-charge ratio for supplies and equipment (0.297). Per the applicant, the anticipated charges for RECELL® vary depending on the size and extent of the burn wound. The applicant noted that one RECELL® system covers up to 1,920 square centimeters of body surface area, which equals approximately 10 percent of the total body surface area (TBSA) of an average-sized adult. The applicant also noted the ICD–10–CM T21 diagnosis code category (Burn and corrosion of trunk) to describe the extent of a burn wound in 10 percent TBSA increments and provide an objective, claims-based index for the approximate number of RECELL® systems needed per patient. Per the applicant, more than one RECELL® system may be required to provide full coverage of the patient’s burn wounds as indicated by the T31 diagnosis code category (Burns classified according to extent of body surface involved).

### Table: Burn Wound, % of Body Surface

<table>
<thead>
<tr>
<th>Burn Wound, % of Body Surface</th>
<th>Percent of Third-Degree Burn</th>
<th>ICD-10-CM Code</th>
<th>RECELL System Units Needed</th>
<th>Hospital Charge per Patient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 10%</td>
<td>0-9%</td>
<td>T31.00XX</td>
<td>1</td>
<td>$25,252.53 ($1*$7,500)/0.297</td>
</tr>
<tr>
<td>10% - 19%</td>
<td>0-9%</td>
<td>T31.10XX</td>
<td>2</td>
<td>$50,505.05 ($2*$7,500)/0.297</td>
</tr>
<tr>
<td>20% - 29%</td>
<td>0-9%</td>
<td>T31.20XX</td>
<td>3</td>
<td>$75,757.58 ($3*$7,500)/0.297</td>
</tr>
<tr>
<td>30% - 39%</td>
<td>0-9%</td>
<td>T31.30XX</td>
<td>4</td>
<td>$101,010.10 ($4*$7,500)/0.297</td>
</tr>
<tr>
<td>40% - 50%</td>
<td>0-9%</td>
<td>T31.40XX</td>
<td>5</td>
<td>$126,262.63 ($5*$7,500)/0.297</td>
</tr>
</tbody>
</table>

Under the first analysis, which involved a case with a 27 percent TBSA burn injury requiring three RECELL® systems and a 13.2 percent charge inflation factor, the applicant calculated a final inflated case-weighted average standardized charge per case of $268,119.

Under the second analysis, which involved the same case with a 27 percent TBSA burn injury requiring three RECELL® systems and no charge inflation factor, the applicant calculated a final inflated case-weighted average standardized charge per case of $245,824.

Under the third analysis, which involved a case with a 9 percent TBSA burn injury requiring one RECELL® system and a 13.2 percent charge inflation factor, the applicant calculated a final inflated case-weighted average standardized charge per case of $217,614.

Under the fourth analysis, which involved the same case with a 9 percent TBSA burn injury requiring one RECELL® system and no charge inflation factor, the applicant calculated a final inflated case-weighted average standardized charge per case of $195,319.

The applicant calculated a case-weighted threshold of $166,916 under all four analyses.

Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount under all four analyses, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that RECELL® meets the cost criterion. As stated previously, because the 3-year anniversary date of the entry of RECELL® onto the U.S. market (September 20, 2021) will occur in FY...
2021, we do not believe that the device is eligible for new technology add-on payments for FY 2022. Therefore, we are proposing to disapprove RECELL® for new technology add-on payments for FY 2022. However, in the event we receive updated information to establish that RECELL® meets the newness criterion, we are providing the following information regarding the new technology add-on payment amount.

Based on preliminary information from the applicant at the time of this proposed rule, the cost per patient of RECELL® is $15,000 or an estimated average cost of $7,500 per device multiplied by 2, which, per the applicant, is the average number of RECELL® units used per procedure. Under §412.88(a)(2), we limit new technology add-on payments to the lesser of 65 percent of the average cost of the technology, or 65 percent of the costs in excess of the MS–DRG payment for the case. In the event we receive supplemental information to establish that the technology is still within the newness period, and we were to approve new technology add-on payments for RECELL® in the final rule, the maximum new technology add-on payment for RECELL® would be $9,570 for FY 2022 (that is, 65 percent of the average cost of the technology).

(12) Shockwave C2 Intravascular Lithotripsy (IVL) System

Shockwave Medical Inc. submitted an application for new technology-add on payments for Shockwave C2 Intravascular Lithotripsy (IVL) System for FY 2022. Per the applicant, the IVL Catheter is intended for lithotripsy-enabled, low-pressure dilation of calcified, stenotic de novo coronary arteries prior to stenting. The applicant explained that the device is delivered through the coronary arterial system, and it generates intermittent sonic waves within the target treatment site that disrupt calcium within the lesion, allowing subsequent dilation of a coronary artery stenosis using low balloon pressure. The applicant also noted that the procedure can be used for otherwise difficult to treat calcified stenosis, including calcified stenosis that are anticipated to exhibit resistance to full balloon dilation or subsequent uniform coronary stent expansion.

Shockwave C2 Intravascular Lithotripsy (IVL) System was designated as a Breakthrough Device in August 2019, indicated for lithotripsy-enabled, low-pressure dilation of calcified, stenotic de novo coronary arteries prior to stenting. The applicant stated that it anticipates receiving Pre-Market Approval as a Class III device from the FDA by March 2021 for the same proposed indication. The applicant stated that they expect to be shipping product within 1 month of FDA approval and state that they therefore estimate market availability by April 2021. According to the applicant, there are currently no unique ICD–10–PCS codes describing the device. The applicant has submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a unique code for FY 2022 to identify the technology.

With regard to the cost criterion, the applicant conducted two analyses based on 100 percent of identified claims and 81 percent of identified claims. To identify potential cases where Coronary IVL could be utilized, the applicant searched the FY 2019 MedPAR file for ICD–10–PCS codes for the placement of a coronary stent, consistent with the anticipated FDA indication for Shockwave C2 Intravascular Lithotripsy (IVL). The applicant included all codes beginning with “027” and ending with “6” or “Z” in its search. The applicant highlighted the potential codes in between using the table that follows:
For the analysis using 100 percent of cases, the applicant identified 160,901 cases mapping to 209 MS–DRGs. Per the applicant, Shockwave C2 Intravascular Lithotripsy (IVL) does not replace any current devices used for indicated patients. However, to be conservative, the applicant removed 50 percent of charges associated with revenue center 0278—other implants. The applicant then standardized the charges and applied the 2-year outlier inflation factor of 13.2 percent used to update the outlier threshold in the FY 2021 IPPS/LTCH final rule (85 FR 59039), to update the charges from FY 2019 to FY 2021. The applicant added charges for the new technology by multiplying the cost of the technology by the estimated number of devices per patient and then dividing by the national CCR for implantable devices (0.293) from the FY 2021 IPPS/LTCH PPS final rule. Under the analysis based on 100 percent of identified claims, the applicant calculated a final inflated case-weighted average standardized charge per case of $143,805 and an average case-weighted threshold of $115,693. We agree with the applicant that Shockwave C2 Intravascular Lithotripsy (IVL) System meets the cost criterion and therefore are proposing to approve Shockwave C2 Intravascular Lithotripsy (IVL) System for new technology add on payments for FY 2022, subject to the technology receiving FDA marketing authorization for lithotripsy-enabled, low-pressure dilation of calcified, stenotic de novo coronary arteries prior to stenting by July 1, 2021.

For the analysis using 81 percent of cases, the applicant identified 130,907 cases mapping to MS–DRGs 246 and 247. The applicant conducted the same analysis noted previously and determined a final inflated case-weighted average standardized charge per case of $122,020 and an average case-weighted threshold of $104,783. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount under both analyses, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that Shockwave C2 Intravascular Lithotripsy (IVL) System meets the cost criterion and therefore are proposing to approve Shockwave C2 Intravascular Lithotripsy (IVL) System for new technology add on payments for FY 2022, subject to the technology receiving FDA marketing authorization for lithotripsy-enabled, low-pressure dilation of calcified, stenotic de novo coronary arteries prior to stenting.

<table>
<thead>
<tr>
<th>Body Part</th>
<th>Approach</th>
<th>Device</th>
<th>Qualifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Coronary Artery, One Artery</td>
<td>0 Open</td>
<td>4 Intraluminal Device, Drug-eluting</td>
<td>8 Bifurcation</td>
</tr>
<tr>
<td>1 Coronary Artery, Two Arteries</td>
<td>3 Percutaneous</td>
<td>5 Intraluminal Device, Drug-eluting, Two</td>
<td>9 Z No</td>
</tr>
<tr>
<td>2 Coronary Artery, Three Arteries</td>
<td>4 Percutaneous Endoscopic</td>
<td>6 Intraluminal Device, Drug-eluting, Three</td>
<td></td>
</tr>
<tr>
<td>3 Coronary Artery, Four or More Arteries</td>
<td></td>
<td>7 Intraluminal Device, Drug-eluting, Four or More</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D Intraluminal Device, Two</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>E Intraluminal Device, Three</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G Intraluminal Device, Four or More</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>T Intraluminal Device, Radioactive</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z No Device</td>
<td></td>
</tr>
</tbody>
</table>

We are inviting public comments on whether the Shockwave C2 Intravascular Lithotripsy (IVL) System meets the cost criterion and our proposal to approve new technology add-on payments for the Shockwave C2 Intravascular Lithotripsy (IVL) System for FY 2022, subject to the technology receiving FDA marketing authorization for lithotripsy-enabled, low-pressure dilation of calcified, stenotic de novo coronary arteries prior to stenting.
(13) Thoraflex™ Hybrid Device

Terumo Aortic submitted an application for new technology-add-on payments for the Thoraflex™ Hybrid Device (Thoraflex™TM) for FY 2022. Per the applicant, the device is a sterile single-use, gelatin sealed Frozen Elephant Trunk (FET) surgical medical device. The applicant explained that the device is deployed through an opened aortic arch and then positioned into the descending thoracic aorta. The applicant further explained that, once it is completely deployed, the collar is sutured to the aorta, and graft anastomoses are then performed in a manner depending upon the chosen product design (which the applicant specified as either the Plexus or the Ante-Flo). The device includes a proximal crimped polyester surgical graft, center collar, and distal nitinol ring stents supported by thin-wall polyester fabric. The applicant also noted that the device has a unique gelatin sealant that acts as a seal, preventing blood loss through the polyester fabric product wall.

Thoraflex™TM Hybrid Device received Breakthrough Device designation on March 20, 2020 with an indication for the open surgical repair or replacement of damaged or diseased vessels of the aortic arch and descending aorta, with or without involvement of the ascending aorta, in cases of aneurysm and/or dissection. The applicant is seeking Pre-Market Approval for the device under a Class III device designation. The applicant stated there are currently no unique ICD–10–PCS codes that describe the Thoraflex™ Hybrid Device, but the following codes may be currently utilized: 02RX06Z (Replacement of thoracic aorta, ascending/arch with zooplastic tissue, open approach); 02RX07J (Replacement of thoracic aorta, ascending/arch with synthetic tissue, open approach); and 02RX0KZ (Replacement of thoracic aorta, ascending/arch with nonautologous tissue substitute, open approach). The applicant submitted a request to the ICD–10 Coordination and Maintenance Committee for approval of a unique code for FY 2022 to identify the technology.

With regard to the cost criterion, the applicant conducted two analyses based on 100 percent of identified claims and 74 percent of identified claims. To identify potential cases where the Thoraflex™ Hybrid Device could be utilized, the applicant searched the FY 2019 MedPAR file for claims reporting the ICD–10–PCS codes for thoracic aortic replacement procedures noted previously. For the analysis using 100 percent of cases, the applicant identified 5,374 cases mapping to 21 MS–DRGs. The applicant then removed charges for the technology being replaced. Per the applicant, the use of the Thoraflex™ Hybrid device is expected to replace a portion of prior technologies. The applicant explained that because an estimate of the percentage of these total charges that would be replaced could not be determined, it removed 100 percent of charges associated with medical/surgical supplies and devices (revenue centers 027x and 0624). The applicant then standardized the charges and applied the 2-year outlier inflation factor of 13.2 percent used to update the outlier threshold in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59039), to update the charges from FY 2019 to FY 2021. As the average sales price of the Thoraflex™ has yet to be determined, the applicant did not add charges for the new technology. The applicant indicated that, once the price is determined, it will utilize the national cost-to-charge ratio for implantable devices from the FY 2021 IPPS/LTCH PPS final rule (0.293) to calculate estimated average hospital charges associated with the device. Under this analysis, based on 100 percent of identified claims, the applicant calculated a final inflated case-weighted average standardized charge per case of $298,047 and an average case-weighted threshold of $230,079.

Under the analysis based on 74 percent of cases, the applicant used the same methodology, which identified 3,978 cases across MS–DRGs 219 and 220. The applicant determined the average case-weighted threshold of $210,585 and a final inflated average standardized charge per case of $254,795. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount under both analyses, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that the Thoraflex™ Hybrid Device meets the cost criterion and therefore are proposing to approve the Thoraflex™ Hybrid Device for new technology add-on payments for FY 2022, subject to the technology receiving FDA marketing authorization for the open surgical repair or replacement of damaged or diseased vessels of the aortic arch and descending aorta, with or without involvement of the ascending aorta, in cases of aneurysm and/or dissection by July 1, 2021.

We are inviting public comments on whether the Thoraflex™ Hybrid Device meets the cost criterion and our proposal to approve new technology add-on payments for the Thoraflex™ Hybrid Device for FY 2022, subject to Thoraflex™ Hybrid Device receiving FDA marketing authorization by July 1, 2021 for the open surgical repair or replacement of damaged or diseased vessels of the aortic arch and descending aorta, with or without involvement of the ascending aorta, in cases of aneurysm and/or dissection.

b. Alternative Pathways for Qualified Infectious Disease Products (QIDPs)

(1) CONTEPO™ (fosfomycin)

Nabriva Therapeutics US, Inc. submitted an application for new technology-add-on payments for CONTEPO™ (fosfomycin) for FY 2022. CONTEPO™ is an intravenously administered epoxide antibiotic intended for the treatment of complicated urinary tract infections (cUTI) including acute pyelonephritis (AP) caused by designated susceptible bacteria. Per the applicant, the drug inhibits cell wall synthesis at an earlier stage and provides new treatment for patients with cUTIs including acute pyelonephritis caused by Escherichia coli and Klebsiella pneumoniae that have failed to respond to other first-line therapies. CONTEPO™ is designated as a QIDP. The applicant initially applied for FDA approval when submitting a New Drug Application (NDA) in October 2018 seeking marketing approval of IV fosfomycin for injection (ZTI–01) for the treatment of patients 18 years and older with cUTI including acute pyelonephritis caused by designated susceptible bacteria. According to the applicant, on June 19, 2020, the FDA rejected the applicant’s resubmitted NDA due to unresolved manufacturing issues that required an in-person inspection, which the FDA was not able to conduct due to travel restrictions. The applicant plans to resubmit an NDA.
after discussing next steps with the FDA and hopes to receive FDA approval prior to July 1, 2021.

The applicant previously applied for a new technology add-on payment for the same indication for FY 2021 and received conditional approval for new technology add-on payments for FY 2021, subject to CONTEPO™ receiving FDA marketing authorization before July 1, 2021 (85 FR 58724). If CONTEPO™ receives FDA marketing authorization before July 1, 2021, the new technology add-on payment for cases involving the use of this technology would be made effective for discharges beginning in the first quarter after FDA marketing authorization is granted. If the FDA marketing authorization is received on or after July 1, 2021, no new technology add-on payments will be made for cases involving the use of CONTEPO™ for FY 2021.

If CONTEPO™ receives FDA marketing authorization before July 1, 2021, the applicant has indicated that it would submit an application for FY 2022 and would instead seek new technology add-on payments for CONTEPO™ for FY 2022 as a continuation of the conditional approval for FY 2021. The applicant requested in its application for FY 2022 that if the technology does not receive FDA marketing authorization by July 1, 2021, CMS conditionally approve CONTEPO™ for new technology add-on payments for FY 2022.

The applicant applied for and received a unique ICD–10–PCS procedure code to identify cases involving the administration of CONTEPO™ in 2019. Effective October 1, 2019, CONTEPO™ administration can be identified by ICD–10–PCS procedure codes XW033K5 (Introduction of fosfomycin anti-infective into peripheral vein, percutaneous approach, new technology group 5) and XW043K5 (Introduction of fosfomycin anti-infective into central vein, percutaneous approach, new technology group 5), which the applicant identifies as unique to CONTEPO™ administration.

With regard to the cost criterion, the applicant used the FY 2019 MedPAR Limited Data Set (LDS) to assess the MS–DRGs to which potential cases representing hospitalized patients who may be eligible for treatment involving CONTEPO™ would most likely be mapped. According to the applicant, CONTEPO™ is anticipated to be indicated for the treatment of hospitalized patients who have been diagnosed with urinary tract infections (cUTIs). The applicant identified 199 ICD–10–CM diagnosis code combinations that identify hospitalized patients who have been diagnosed with a cUTI. Searching the FY 2019 MedPAR data file for these ICD–10–CM diagnosis codes resulted in a total of 525,876 potential cases that span 507 unique MS–DRGs. The applicant noted that the cases identified are fewer than in the FY 2021 new technology add-on payment application. Per the applicant, this change occurred because the applicant excluded additional claims for Medicare Advantage and inpatient “full-encounter” claims from all cohorts. The applicant maintained that while cohorts are smaller, the effects on the results were minimal.

The applicant examined associated charges per MS–DRG and removed charges for potential antibiotics that may be replaced by use of CONTEPO™. Specifically, the applicant identified 5 antibiotics currently used for the treatment of patients who have been diagnosed with a cUTI and calculated the cost of each of these drugs for administration over 14-day inpatient hospitalization. Because patients who have been diagnosed with a cUTI would typically only be treated with one of these antibiotics at a time, the applicant estimated an average of the 14-day cost for the 5 antibiotics. The applicant then converted the cost to charges by dividing the costs by the national average cost-to-charge ratio of 0.187 for drugs from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601). The applicant then standardized the charges for each case and inflated each case's charges by applying the FY 2021 IPPS/LTCH PPS final rule outlier charge inflation factor of 13.2 percent (85 FR 59039).

The applicant then added the charges for the new technology by calculating the per-day cost per patient. The applicant noted that the duration of therapy of up to 14 days (patients that had a cUTI with concurrent bacteremia) is consistent with the prospective prescribing information, and that it used this 14-day duration of therapy to calculate total patient cost. The applicant then converted these costs to charges by dividing the costs per patient by the national average cost-to-charge ratio of 0.187 for drugs from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601). The applicant calculated a final inflated case-weighted average standardized charge per case of $77,613, which exceeds the case-weighted threshold of $59,237.

Because of the large number of cases included in this cost analysis, the applicant supplemented the analysis as described previously with additional sensitivity analyses. In these analyses, the previous cost analysis was repeated using only the top 75 percent of cases and the top 20 MS–DRGs. In these two additional sensitivity analyses, the final inflated case-weighted average standardized charge per case for CONTEPO™ of $70,718 and $70,046 exceeded the average case-weighted threshold amount of $55,388 and $55,468, respectively. Because the final inflated case-weighted average standardized charge per case for CONTEPO™ exceeded the average case-weighted threshold amount, the applicant asserts that CONTEPO™ meets the cost criterion.

As summarized, the applicant used a 14-day duration of therapy to calculate total inpatient cost for purposes of its cost analysis. However, the applicant noted that the average number of days a patient would be administered CONTEPO™ will most likely fall between 10 to 14 days of therapy given the current guideline recommendations. Of these treatment days, the applicant noted that nearly all would occur during the inpatient hospital stay. Consistent with our historical practice, and as stated in the FY 2021 IPPS/LTCH PPS final rule, we believe the new technology add-on payment for CONTEPO™, if approved, would be based on the average cost of the technology and not the maximum (85 FR 58724). Without further information from the applicant regarding the average number of days CONTEPO™ is administered, we continue to believe using the middle ground of 12.5 days, based on the 10–14 day period indicated by the applicant, is appropriate for this analysis to determine the average number of days CONTEPO™ is administered in the hospital. To assess whether the technology would meet the cost criterion using an average cost for the technology based on this 12.5-day period for CONTEPO™ administration, we converted the costs to charges by dividing the costs per patient by the national average cost-to-charge ratio of 0.187 for drugs from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601). Based on data from the applicant, this resulted in a final inflated average case-weighted standardized charge per case of $77,613, which exceeds the case-weighted threshold of $59,237.

Because of the large number of cases included in this cost analysis, the applicant supplemented the analysis as described previously with additional sensitivity analyses. In these analyses, the previous cost analysis was repeated using only the top 75 percent of cases and the top 20 MS–DRGs. In these two additional sensitivity analyses, the final inflated case-weighted average standardized charge per case for CONTEPO™ of $70,718 and $70,046 exceeded the average case-weighted threshold amount of $55,388 and $55,468, respectively. Because the final inflated case-weighted average standardized charge per case for CONTEPO™ exceeded the average case-weighted threshold amount, the applicant asserts that CONTEPO™ meets the cost criterion.

We agree with the applicant that CONTEPO™ (fosfomycin) meets the cost criterion. Therefore, if CONTEPO™ does not receive FDA approval by July 1, 2021 to
receive new technology add on payments beginning with FY 2021, for FY 2022, per the policy finalized in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58739 through 58742), we are proposing to conditionally approve CONTEPO™ for new technology add-on payments, subject to the technology receiving FDA marketing authorization by July 1, 2022 (that is, by July 1 of the fiscal year for which the applicant applied for new technology add-on payments (2022)). If CONTEPO™ receives FDA marketing authorization prior to July 1, 2022, the new technology add-on payment for cases involving the use of this technology would be made effective for discharges beginning in the first quarter after FDA marketing authorization is granted. If the FDA marketing authorization is received on or after July 1, 2022, no new technology add-on payments would be made for cases involving the use of CONTEPO™ for FY 2022. As previously noted, the applicant has received a unique ICD–10–PCS procedure code to identify cases involving the administration of CONTEPO™. If CONTEPO™ receives FDA marketing authorization prior to July 1, 2022, we are proposing to continue making new technology add-on payments for CONTEPO™ in FY 2022.

As discussed previously, without further information from the applicant regarding the average number of days CONTEPO™ is administered, and consistent with our approach for the FY 2021 IPPS/LTCH PPS final rule, we believe using a 12.5-day duration of therapy is a reasonable approach for estimating the average cost of the technology. Based on preliminary information from the applicant at the time of this proposed rule, the cost of CONTEPO™ administered over 12.5 days is $3,500. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments for QIDPs to the lesser of 75 percent of the average cost of the technology, or 75 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that if CONTEPO™ receives FDA marketing authorization prior to July 1, 2022, the maximum new technology add-on payment for a case involving the use of CONTEPO™ (fosfomycin) would be $2,625 for FY 2022 (that is, 75 percent of the average cost of the technology). Cases involving the use of CONTEPO™ that would be eligible for new technology add-on payments will be identified by ICD–10–PCS procedure codes WX033K5 (Introduction of Fosfomycin anti-infective into peripheral vein, percutaneous approach, new technology group 5) or WX043K5 (Introduction of Fosfomycin anti-infective into central vein, percutaneous approach, new technology group 5).

We are inviting public comments on whether CONTEPO™ (fosfomycin) meets the cost criterion and our proposal to approve new technology add-on payments for CONTEPO™ (fosfomycin) for FY 2022.

(2) FETROJA® (cefiderocol)

Shionogi & Co., Ltd submitted an application for new technology-add on payments for FETROJA® (cefiderocol) for FY 2022. FETROJA® is an injectable siderophore cephalosporin indicated for the treatment of hospital-acquired bacterial pneumonia (HABP)/ventilator-associated bacterial pneumonia (VABP) on September 25, 2020. FETROJA® also has a QIDP designation and is FDA approved for cUTI, and was granted a priority review voucher. The applicant states that the principal antibacterial/bactericidal activity of FETROJA® occurs with inhibiting GN bacterial cell wall synthesis by binding to penicillin-binding proteins.

FETROJA® was designated as a QIDP for HABP/VABP and received FDA marketing approval for this indication on September 25, 2020. FETROJA® became available on the market for the treatment of HABP/VABP after FDA approval for this indication. FETROJA® also has a QIDP designation and is FDA approved for cUTI, and was granted a new technology add-on payment under the alternative new technology add-on payment pathway for certain antimicrobials for this indication in the FY 2021 IPPS/LTCH final rule (85 FR 58721). The current new technology add-on payment application for FY2022 is specific to the indication of HABP/VABP. According to the applicant, the ICD–10 Coordination and Maintenance Committee approved the following ICD–10–PCS codes to specifically describe the IV administration of FETROJA®, effective October 1, 2020: WX033A6 (Introduction of cefiderocol anti-infective into peripheral vein, percutaneous approach, new technology group 6) and WX043A6 (Introduction of cefiderocol anti-infective into central vein, percutaneous approach, new technology group 6).

With regard to the cost criterion, the applicant conducted two analyses based on 100 percent and 75 percent of identified claims. For both scenarios, the applicant used the FY 2019 MedPAR Limited Data Set (LDS) to assess the MS–DRGs to which potential cases representing hospitalized patients who may be eligible for FETROJA® treatment would be mapped. The applicant identified eligible cases by searching the FY 2019 MedPAR for cases reporting ICD–10–CM codes for pneumonia and for resistance to antimicrobial drugs.

Under the first scenario of 100 percent of cases, the applicant identified 9,595 cases mapping to 203 MS–DRGs. Under the second scenario of 75 percent of cases, the applicant identified 7,218 cases mapping to 19 MS–DRGs. The applicant standardized the charges after calculating the average case-weighted unstandardized charge per case for both scenarios and removing 50 percent of charges associated with the drug revenue centers 025x, 026x, and 063x under both scenarios. Per the applicant, FETROJA® is expected to replace some of the drugs that would otherwise be utilized to treat these patients. The applicant stated that it believes 50 percent of these total charges to be a conservative estimate as other drugs will still be required for these patients during their hospital stay. The applicant then applied an inflation factor of 13.2 percent, which was the 2-year outlier charge inflation factor used in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59039), to update the charges from FY 2019 to FY 2021. The applicant then added charges for FETROJA® by dividing the total average hospital cost of FETROJA® by the national average cost-to-charge ratio [0.187] for drugs published in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601).

The applicant calculated a final inflated case-weighted average standardized charge per case of $164,825 for the first scenario and $148,821 for the second scenario and an average case-weighted threshold amount of $78,296 for the first scenario and $73,607 for the second scenario. Because the final inflated case-weighted average standardized charge per case for each scenario exceeds the average case-weighted threshold amount for each scenario, the applicant asserted that the technology meets the cost criterion.

We agree with the applicant that FETROJA® (cefiderocol) meets the cost criterion and therefore are proposing to approve FETROJA® for new technology
add on payments for FY 2022 when used for the treatment of HABP/VABP. Cases involving the use of FETROJA® that are eligible for new technology add-on payments will be identified by ICD–10–PCS procedure codes XW03366 or XW04366.

Based on preliminary information from the applicant at the time of this proposed rule, the cost of FETROJA® administered over an average of 10.4 days is $11,439.79. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under § 412.88(a)(2), we limit new technology add-on payments for QIDPs to the lesser of 75 percent of the average cost of the technology, or 75 percent of the costs in excess of the MS–DRG payment for the case. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of FETROJA® when used for the treatment of HABP/VABP would be $8,579.84 for FY 2022 (that is, 75 percent of the average cost of the technology).

We are inviting public comments on whether FETROJA® (cefidorcol) meets the cost criterion and our proposal to approve new technology add-on payments for FETROJA® for FY 2022 for the treatment of HABP/VABP.

(3) RECARBRIO™ (imipenem, cilastatin, and relebactam)

Merck & Co. submitted an application for new technology add-on payments for RECARBRIO™ for FY 2022. RECARBRIO™ is a fixed-dose combination of imipenem, a penem antibacterial; cilastatin, a renal dehydropeptidase inhibitor; and relebactam, a novel b-lactamase inhibitor (BLI) administered orally.

RECARBRIO™ is indicated for the treatment of hospital-acquired bacterial pneumonia (HABP) and ventilator-associated bacterial pneumonia (VABP) caused by susceptible Gram-negative bacteria. RECARBRIO™ is also indicated for complicated urinary tract infections (cUTI) and complicated intra-abdominal infections (cIAI) and was approved for new technology add-on payment for these indications in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58728).

The applicant explained that the recommended dose of RECARBRIO™ is 1.25 grams administered by intravenous infusion over 30 minutes every 6 hours in patients 18 years of age and older with creatinine clearance (CrCl) 90 mL/min or greater. Per the applicant, the recommended treatment course suggests that a patient will receive 1 vial per dose and 4 doses per day. Per RECARBRIO™’s prescribing information, the recommended duration of treatment is 4 days to 14 days.

RECARBRIO™ is designated as a QIDP indicated for the treatment of HABP/VABP and received FDA approval through a supplemental NDA on June 4, 2020 for this indication. According to the applicant, RECARBRIO™ originally submitted an NDA for the cUTI and cIAI indications and received FDA approval on July 16, 2019. The applicant previously applied for the new technology add-on payment for the cUTI and cIAI indications, which CMS approved in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58728). The application for new technology add-on payments for FY 2022 is specific to the HABP and VABP indications. The applicant noted that RECARBRIO™ can be identified with ICD–10–PCS codes XW033U5 (Introduction of imipenem-cilastatin-relebactam anti-infective into peripheral vein, percutaneous approach, new technology group 5) or XW043U5 (Introduction of imipenem-cilastatin-relebactam anti-infective into central vein, percutaneous approach, new technology group 5).

To demonstrate that the technology meets the cost criterion, the applicant searched the FY 2019 MedPAR Limited Data Set (LDS) for cases reporting ICD–10–CM diagnosis codes J95.851(Ventilator assisted pneumonia) for VABP, and the following list of codes for HABP:

<table>
<thead>
<tr>
<th>Group</th>
<th>Code</th>
<th>Code Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 1</td>
<td>J181</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Lobar pneumonia, unspecified organism</td>
</tr>
<tr>
<td>Group 1</td>
<td>J130</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to Klebsiella pneumoniae</td>
</tr>
<tr>
<td>Group 1</td>
<td>J151</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to Pseudomonas</td>
</tr>
<tr>
<td>Group 1</td>
<td>J14</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to Hemophilus influenzae</td>
</tr>
<tr>
<td>Group 1</td>
<td>J152</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to other specified bacteria</td>
</tr>
<tr>
<td>Group 1</td>
<td>J155</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to Escherichia coli</td>
</tr>
<tr>
<td>Group 1</td>
<td>J156</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to other aerobic Gram-negative bacteria</td>
</tr>
<tr>
<td>Group 1</td>
<td>J158</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to other specified bacteria</td>
</tr>
<tr>
<td>Group 1</td>
<td>J159</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Unspecified bacterial pneumonia</td>
</tr>
<tr>
<td>Group 1</td>
<td>J168</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia due to other specified infectious organisms</td>
</tr>
<tr>
<td>Group 1</td>
<td>J17</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia in diseases classified elsewhere</td>
</tr>
<tr>
<td>Group 1</td>
<td>J180</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Bronchopneumonia, unspecified organism</td>
</tr>
<tr>
<td>Group 1</td>
<td>J189</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Pneumonia, unspecified organism</td>
</tr>
<tr>
<td>Group 1</td>
<td>J9600</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Acute respiratory failure, unspecified whether by hypoxia or hypercapnia</td>
</tr>
<tr>
<td>Group 1</td>
<td>J9690</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Respiratory failure, unspecified whether by hypoxia or hypercapnia</td>
</tr>
<tr>
<td>Group 1</td>
<td>J9620</td>
<td>ICD-10-CM Diagnosis Code</td>
<td>Acute and chronic respiratory failure</td>
</tr>
</tbody>
</table>

Additionally, for HABP, the applicant identified cases that included present on admission indicators of N (Diagnosis was not present at time of inpatient admission), U (Documentation insufficient to determine if condition was present at the time of inpatient admission), W (Clinically undetermined), or 1 (Unreported/not used).

The applicant identified a total 106,964 cases, which were mapped to 355 unique MS–DRGs. The applicant removed 88 MS–DRGs with minimal frequencies (less than 50 cases/MS–DRG). For the applicant, the top 10 MS–DRGs covered approximately 34.1 percent of all patients. The applicant examined associated charges per MS–DRG and removed all pharmacy charges to be replaced using RECARBRIO™. The applicant then standardized and inflated the charges by applying the FY 2021 IPPS/LTCH PPS final rule outlier
charge inflation factor of 1.13218 (85 FR 59039).

The applicant estimated an average cost of RECABRIO™ for the treatment of HABP and VABP in the inpatient setting based on the recommended dose of 1.25 grams (imipenem 500 mg, cilastatin 500 mg, relebactam 250 mg) administered by intravenous infusion over 30 minutes every 6 hours in patients 18 years of age and older with creatinine clearance (CLcr) 90 mL/min or greater. As stated previously, according to the applicant, the recommended treatment course suggests that a patient will receive 1 vial per dose, 4 doses per day within a recommended treatment duration of 4 to 14 days. To determine the cost per patient, the applicant stated it used the FY 2019 MedPAR analysis of total cases representing hospitalized patients who may be eligible for treatment involving RECABRIO™ to identify a percentage of total cases per indication: HABP 94.07 percent of cases and VABP 5.93 percent. According to the applicant, it next identified the average length of stay per indication: HABP 14.2 days and VABP 24.2 days. The applicant also assumed that 70 percent of patients would receive RECABRIO™ beginning on the fourth day after admission while the remaining 30 percent of these patients would receive RECABRIO™ beginning on the second day of their hospitalization. The applicant then multiplied the daily dose cost by the two scenarios for each HABP and VABP indication to determine the cost per stay for each indication by days of drug use. Next it multiplied the cost per stay for each indication by the share of cases by days in use (70/30 percent split) to determine the weighted cost for days in use estimation. The applicant then summed the 70/30 percent case breakdown (weighted cost) for patients initiating on day 2 and 4 to determine the average cost per indication for HABP and VABP. Finally, the applicant multiplied the average cost per indication by the percent of total cases for HABP and VABP, then summed them to determine the average cost. The applicant converted this cost to a charge by dividing the costs by the national average cost-to-charge ratio of 0.187 for drugs published in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58601) and added the resulting charges to determine the final inflated case-weighted average standardized charge per case.

The applicant calculated a final inflated case-weighted average standardized charge per case of $258,946 and an average case-weighted threshold amount of $123,172. The applicant also calculated an average case-weighted standardized charge per case for HABP and VABP separately using the same methodology previously described and determined final inflated case-weighted average standardized charges per case of $249,992 for HABP and $394,992 for VABP and average case-weighted thresholds of $117,466 for HABP and $214,869 for VABP.

In addition, because RECABRIO™ was previously approved for a new technology add-on payment for the cuti and cIAI indications, the applicant modified the added amount of the charge for RECABRIO™ based on the cost calculation of the technology using all four indications. Using the same methodology previously described, the applicant determined final inflated case-weighted average standardized charges per case of $250.209 for HABP and VABP, $241.255 for HABP, and $386.255 for VABP and average case-weighted thresholds of $123,172 for HABP and VABP, $117,466 for HABP, and $214,869 for VABP. Because the final inflated case-weighted average standardized charge per case exceeded the average case-weighted threshold amount in each scenario, the applicant maintained that the technology met the cost criterion.

We agree with the applicant that RECABRIO™ meets the cost criterion and therefore are proposing to approve RECABRIO™ for new technology add-on payments for FY 2022 when used for treatment of HABP and VABP. Based on preliminary information from the applicant at the time of this proposed rule, the cost of RECABRIO™ is $12,768.68 when used for the treatment of HABP and VABP. We note that the cost information for this technology may be updated in the final rule based on revised or additional information CMS receives prior to the final rule. Under §412.88(a)(2), we limit new technology add-on payments for QIDPs to the lesser of 75 percent of the costs of the new medical service or technology, or 75 percent of the amount by which the costs of the case exceed the MS–DRG payment. As a result, we are proposing that the maximum new technology add-on payment for a case involving the use of RECABRIO™ would be $9,576.51 for FY 2022 (that is, 75 percent of the average cost of the technology) when used for treatment of HABP and VABP.

We are inviting public comments on whether RECABRIO™ (imipenem, cilastatin, and relebactam) meets the cost criterion and our proposal to approve new technology add-on payments for the RECABRIO™ (imipenem, cilastatin, and relebactam) for the indications of HABP and VABP for FY 2022.


As noted previously, and explained in the FY 2005 IPPS final rule (69 FR 49002), the intent of section 1886(d)(5)(K) of the Act and regulations under §412.87(b)(2) is to pay for new medical services and technologies for the first 2 to 3 years that a product comes on the market, during the period when the costs of the new technology are not yet fully reflected in the DRG weights.

As we have discussed in prior rulemaking (77 FR 53348), generally, our policy is to begin the newness period on the date of FDA approval or clearance or, if later, the date of availability of the product on the U.S. market, when data reflecting the costs of the technology begin to become available for recalibration of the DRGs. In some specific circumstances, we have recognized a date later than FDA approval as the appropriate starting point for the 2-year to 3-year newness period for new technologies approved for add-on payments (85 FR 53673).

As discussed previously, in the FY 2009 IPPS final rule (73 FR 48561 through 48563), we revised our regulations at §412.87 to codify our longstanding practice of how CMS evaluates the eligibility criteria for new medical service or technology add-on payment applications. We stated that new technologies that have not received FDA approval do not meet the newness criterion. In addition, we stated we do not believe it is appropriate for CMS to determine whether a medical service or technology represents a substantial clinical improvement over existing technologies before the FDA makes a determination as to whether the medical service or technology is safe and effective. For these reasons, we first determine whether a new technology meets the newness criterion, and only if so, do we make a determination as to whether the technology meets the cost threshold and represents a substantial clinical improvement over existing medical services or technologies. We also finalized at 42 CFR 412.87(c) (subsequently redesignated as 412.87(e)) that all applicants for new technology add-on payments must have FDA approval or clearance by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered.
In the FY 2021 IPPS/LTCH PPS final rule, to more precisely describe the various types of FDA approvals, clearances, licensures, and classifications that we consider under our new technology add-on payment policy, we finalized a technical clarification to § 412.87(e)(2) to indicate that new technologies must receive FDA marketing authorization (for example, pre-market approval (PMA); 510(k) clearance; the granting of a De Novo classification request; approval of a New Drug Application (NDA); or Biologics License Application (BLA) licensure) by July 1 of the year prior to the beginning of the fiscal year for which the application is being considered. As noted in the FY 2021 IPPS/LTCH PPS final rule, this technical clarification did not change our longstanding policy for evaluating whether a technology is eligible for new technology add-on payment for a given fiscal year, and we continue to consider FDA marketing authorization as representing that a product has received FDA approval or clearance for purposes of eligibility for the new technology add-on payment under § 412.87(e)(2) (85 FR 58742).

An EUA by the FDA allows a product to be used for emergency use, but under our longstanding policy, we believe it would not be considered an FDA marketing authorization for the purpose of new technology add-on payments, as a product that is available only through an EUA is not considered to have an FDA approval or clearance. Therefore, under the current regulations at 42 CFR 412.87(e)(2) and consistent with our longstanding policy of not considering eligibility for new technology add-on payments prior to a product receiving FDA approval or clearance, we believe a product available only through an EUA would not be eligible for new technology add-on payments.

Although an EUA is not an FDA approval or clearance that would be considered FDA marketing authorization within the meaning of § 412.87(e)(2), data reflecting the costs of products that have received an EUA could become available as soon as the date of the EUA issuance and prior to receiving FDA approval or clearance. CMS also recognizes that the manufacturers of products with EUAs (such as some COVID–19 treatments) might further engage with FDA to seek approval or clearance, and may be eligible for new technology add-on payments in the future. We are seeking comment on how data reflecting the costs of a product with an EUA, which may become available upon authorization of the product for emergency use (but prior to FDA approval or clearance), should be considered for purposes of the 2-year to 3-year period of newness for new technology add-on payments for a product with or expected to receive an EUA, including whether the newness period should begin with the date of the EUA.


In response to the COVID–19 PHE, we established the New COVID–19 Treatments Add-On Payment (NCTAP) under the IPPS for COVID–19 cases that meet certain criteria (85 FR 71157–71158). We believe that as drugs and biological products become available and are authorized for emergency use or approved by FDA for the treatment of COVID–19 in the inpatient setting, it is appropriate to increase the current IPPS payment amounts to mitigate any potential financial disincentives for hospitals to provide new COVID–19 treatments during the PHE. Therefore, effective for discharges occurring on or after November 2, 2020 and until the end of the PHE for COVID–19, we established the NCTAP to pay hospitals the lesser of: (1) 65 percent of the operating outlier threshold for the claim; or (2) 65 percent of the amount by which the costs of the case exceed the standard DRG payment, including the adjustment to the relative weight under section 3710 of the Coronavirus Aid, Relief, and Economic Security (CARES) Act, for certain cases that include the use of a drug or biological product currently authorized for emergency use or approved for treating COVID–19.

We anticipate that there might be inpatient cases of COVID–19, beyond the end of the PHE, for which payment based on the assigned MS–DRG may not adequately reflect the additional cost of new COVID–19 treatments. In order to continue to mitigate potential financial disincentives for hospitals to provide these new treatments, and to minimize any potential payment disruption immediately following the end of the PHE, we believe that the NCTAP should remain available for cases involving eligible treatments for the remainder of the fiscal year in which the PHE ends (for example, if the PHE were to end in FY 2022, until September 30, 2022).932

At the same time, we also believe that any new technology add-on payments that may be approved for a COVID–19 treatment would also serve to mitigate any potential financial disincentives for hospitals to provide that new COVID–19 treatment, such that the NCTAP would no longer be needed for that same product. We note that a COVID–19 treatment that is the subject of an application for FY 2022 new technology add-on payments and which receives FDA approval or clearance by July 1, 2021 would be eligible for consideration for new technology add-on payments for FY 2022.

Therefore, we are proposing to extend the NCTAP for eligible products that are not approved for new technology add-on payments through the end of the fiscal year in which the PHE ends (for example, September 30, 2022). We are also proposing to discontinue the NCTAP for discharges on or after October 1, 2021 for a product that is approved for new technology add-on payments beginning FY 2022.

We believe this proposal to extend NCTAP for eligible products would allow some form of add-on payment (that is, NCTAP or new technology add-on payment) to continue uninterrupted for some period of time following the conclusion of the COVID–19 PHE, as we anticipate that there will continue to be inpatient cases of COVID–19 after the PHE ends. For example, if a drug or biological product with an EUA to treat COVID–19 does not receive FDA approval by July 1, 2021, and the PHE ends on December 31, 2021, this proposal would allow discharges involving that product to continue to be eligible for the NCTAP through September 30, 2022 (the end of FY 2022). If that same product receives FDA approval by July 1, 2022, it would be eligible for consideration of new technology add-on payments beginning FY 2023, and new technology add-on payments, if approved, would begin on October 1, 2022 (the beginning of FY 2023).

We invite public comment on our proposals to continue the NCTAP for eligible products that are not approved for new technology add-on payments through the end of the fiscal year in which the PHE ends and to discontinue the NCTAP for products that are approved for new technology add-on payments.

We note that due to the ongoing COVID–19 pandemic, the federal public health emergency will likely remain in place for the entirety of 2021, and when a decision is made to terminate the declaration or let it expire, HHS will provide states with 60 days’ notice prior to termination.

932 On January 22, 2021, former Acting HHS Secretary Norris Cochran sent a letter to governors announcing that HHS has determined that the newness period should begin with the date of the EUA issuance and prior to receiving FDA approval or clearance.
III. Proposed Changes to the Hospital Wage Index for Acute Care Hospitals

A. Background

1. Legislative Authority

Section 1886(d)(3)(E) of the Act requires that, as part of the methodology for determining prospective payments to hospitals, the Secretary adjust the standardized amounts for area differences in hospital wage levels by a factor (established by the Secretary) reflecting the relative hospital wage level in the geographic area of the hospital compared to the national average hospital wage level. We currently define hospital labor market areas based on the delineations of statistical areas established by the Office of Management and Budget (OMB). A discussion of the proposed FY 2022 hospital wage index based on the statistical areas appears under section III.A.2. of the preamble of this proposed rule.

Section 1886(d)(3)(E) of the Act requires the Secretary to update the wage index annually and to base the update on a survey of wages and wage-related costs of short-term, acute care hospitals. (CMS collects these data on the Medicare cost report, CMS Form 2552–10, Worksheet S–3, Parts II, III, and IV. The OMB control number for approved collection of this information is 0938–3050, which expires on March 31, 2022.) This provision also requires that any updates or adjustments to the wage index be made in a manner that ensures that aggregate payments to hospitals are not affected by the change in the wage index. The proposed adjustment for FY 2022 is discussed in section II.B. of the Addendum to this proposed rule.

As discussed in section III.I. of the preamble of this proposed rule, we also take into account the geographic reclassification of hospitals in accordance with sections 1886(d)(8)(B) and 1886(d)(10) of the Act when calculating IPPS payment amounts.

Under section 1886(d)(3)(F) of the Act, the Secretary is required to adjust the standardized amounts so as to ensure that aggregate payments under the IPPS after implementation of the provisions of sections 1886(d)(8)(B), 1886(d)(8)(C), and 1886(d)(10) of the Act are equal to the aggregate prospective payments that would have been made absent these provisions. The proposed budget neutrality adjustment for FY 2022 is discussed in section II.A.4.b. of the Addendum to this proposed rule.

2. Core-Based Statistical Areas (CBSAs) for the Proposed FY 2022 Hospital Wage Index

The wage index is calculated and assigned to hospitals on the basis of the labor market area in which the hospital is located. Under section 1886(d)(3)(E) of the Act, beginning with FY 2005, we delineate hospital labor market areas based on OMB-established Core-Based Statistical Areas (CBSAs). The current statistical areas (which were implemented beginning with FY 2015) are based on revised OMB delineations issued on February 28, 2013, in OMB Bulletin No. 13–01, OMB Bulletin No. 13–01 established revised delineations for Metropolitan Statistical Areas, Micropolitan Statistical Areas, and Combined Statistical Areas in the United States and Puerto Rico based on the 2010 Census, and provided guidance on the use of the delineations of these statistical areas using standards published in the June 28, 2010 Federal Register (75 FR 37246 through 37252).

We refer readers to the FY 2015 IPPS/LTCH PPS final rule (79 FR 49951 through 49963 and 49973 through 49982) for a full discussion of our implementation of the OMB statistical area delineations beginning with the FY 2015 wage index.

Generally, OMB issues major revisions to statistical areas every 10 years, based on the results of the decennial census. However, OMB occasionally issues minor updates and revisions to statistical areas in the years between the decennial censuses through OMB Bulletins. On July 1, 2014, OMBBulletin No. 17–01 provided updates to and superseded OMB Bulletin No. 13–01 that was issued on February 28, 2013. The attachment to OMB Bulletin No. 17–01, which was effective October 1, 2014, was based on the 2010 Census, and provided guidance on the use of the delineations of these statistical areas using standards published in the July 30, 2015 Federal Register (80 FR 42300 through 42301), we continued to use the OMB delineations that were adopted beginning with FY 2015 to calculate the area wage indexes, with updates as reflected in OMB Bulletin No. 13–01.

On October 1, 2016, beginning with the FY 2017 wage index. For a complete discussion of the adoption of the updates set forth in OMB Bulletin No. 17–01, we refer readers to the FY 2019 IPPS/LTCH PPS final rule. In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42300 through 42301), we continued to use the OMB delineations that were adopted beginning with FY 2015.

On April 10, 2018 OMB issued OMB Bulletin No. 18–03 which superseded the August 15, 2017 OMB Bulletin No. 17–01. On September 14, 2018, OMB issued OMB Bulletin No. 18–04 which superseded the April 10, 2018 OMB Bulletin No. 18–03. Typically, interim OMB Bulletins (those issued between decennial censuses) have only contained minor modifications to labor market delineations. However, the April 10, 2018 OMB Bulletin No. 18–03 and the September 14, 2018 OMB Bulletin No. 18–04 included more modifications to the labor market areas than are typical for OMB bulletins issued between decennial censuses, including some material modifications that had a number of downstream effects, such as reclassification changes. These bulletins established revised delineations for Metropolitan Statistical Areas, Micropolitan Statistical Areas, and...
Combined Statistical Areas, and provided guidance on the use of the delineations of these statistical areas. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58743 through 58755) we adopted the updates set forth in OMB Bulletin No. 18–04 effective October 1, 2018, beginning with the FY 2021 wage index. For a complete discussion of the adoption of the updates set forth in OMB Bulletin No. 18–04, we refer readers to the FY 2021 IPPS/LTCH PPS final rule.

On March 6, 2020, OMB issued Bulletin No. 20–01, which provided updates to and superseded OMB Bulletin No. 18–04 that was issued on September 14, 2018. The attachments to OMB Bulletin No. 20–01 provided detailed information on the update to statistical areas since September 14, 2018, and were based on the application of the 2010 Standards for Delineating Metropolitan and Micropolitan Statistical Areas to Census Bureau population estimates for July 1, 2017 and July 1, 2018. (For a copy of this bulletin, we refer readers to the following website: https://www.whitehouse.gov/wp-content/uploads/2020/03/Bulletin-20-01.pdf). In OMB Bulletin No. 20–01, OMB announced one new Micropolitan Statistical Area, one new component of an existing Combined Statistical Area, and changes to New England City and Town Area (NECTA) delineations. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58744), we stated that if appropriate, we would propose any updates from OMB Bulletin No. 20–01 in the FY 2022 IPPS/LTCH PPS proposed rule. After reviewing OMB Bulletin No. 20–01, we have determined that the changes in Bulletin 20–01 encompassed delineation changes that would not affect the Medicare wage index for FY 2022. Specifically, the updates consisted of changes to NECTA delineations and the creation of a new Micropolitan Statistical Area which was then added as a new component to an existing Micropolitan Statistical Area. The Medicare wage index does not utilize NECTA definitions, and, as most recently discussed in FY 2021 IPPS/LTCH PPS final rule (85 FR 58746), we include hospitals located in Micropolitan Statistical areas in each State’s rural wage index. Therefore, while we are proposing to adopt the updates set forth in OMB Bulletin No. 20–01 consistent with our longstanding policy of adopting OMB delineation updates, we note that specific wage index updates would not be necessary for FY 2022 as a result of adopting these OMB updates. In other words, these OMB updates would not affect any hospital’s geographic area for purposes of the wage index calculation for FY 2022.

For FY 2022, we would continue to use the OMB delineations that were adopted beginning with FY 2015 (based on the revised delineations issued in OMB Bulletin No. 13–01 to calculate the area wage indexes, with updates as reflected in OMB Bulletin Nos. 15–01, 17–01 and 18–04. We note that in connection with our adoption in FY 2021 of the updates in OMB Bulletin 18–04, we adopted a policy to place a 5 percent cap, for FY 2021, on any decrease in a hospital’s wage index from the hospital’s final wage index in FY 2020 so that a hospital’s final wage index for FY 2021 would not be less than 95 percent of its final wage index for FY 2020. We refer the reader to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58753 through 58755) for a complete discussion of this transition. As finalized in the FY 2021 IPPS/LTCH PPS final rule, this transition is set to expire at the end of FY 2021. However, given the unprecedented nature of the ongoing COVID–19 PHE, we also seek comment on whether it would be appropriate to continue to apply a transition to the FY 2022 wage index for hospitals negatively impacted by our adoption of the updates in OMB Bulletin 16–04. For example, such an extended transition could potentially take the form of holding the FY 2022 wage index for those hospitals harmless from any reduction relative to their FY 2021 wage index. If we were to apply a transition to the FY 2022 wage index for hospitals negatively impacted by our adoption of the updates in OMB Bulletin 16–04, we also seek comment on making this transition budget neutral, as is our usual practice, in the same manner that the FY 2021 transition was made budget neutral as discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58755).

3. Codes for Constituent Counties in CBSAs

CBSAs are made up of one or more constituent counties. Each CBSA and constituent county has its own unique identifying codes. There are two different lists of codes associated with counties: Social Security Administration (SSA) codes and Federal Information Processing Standard (FIPS) codes. Historically, CMS has listed and used SSA and FIPS county codes to identify and crosswalk counties to CBSA code for purposes of the hospital wage index. As we discussed in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38129 through 38130), we have learned that SSA county codes are no longer being maintained and updated. However, the FIPS codes continue to be maintained by the U.S. Census Bureau. We believe that using the latest FIPS codes will allow us to maintain a more accurate and up-to-date payment system that reflects the reality of population shifts and labor market conditions. The Census Bureau’s most current statistical area information is derived from ongoing census data received since 2010; the most recent data are from 2020. The Census Bureau maintains a complete list of changes to counties or county equivalent entities on the website at: https://www.census.gov/programs-surveys/geography/technical-documentation/county-changes.html. We believe that it is important to use the latest counties or county equivalent entities in order to properly crosswalk hospitals from a county to a CBSA for purposes of the hospital wage index used under the IPPS.

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38129 through 38130), we adopted a policy to discontinue the use of the SSA county codes and began using only the FIPS county codes for purposes of crosswalking counties to CBSAs. In addition, in the same rule, we implemented the latest FIPS code updates, which were effective October 1, 2017, beginning with the FY 2018 wage indexes. These updates have been used to calculate the wage indexes in a manner generally consistent with the CBSA-based methodologies finalized in the FY 2005 IPPS final rule and the FY 2015 IPPS/LTCH PPS final rule.

For FY 2022, we are continuing to use only the FIPS county codes for purposes of crosswalking counties to CBSAs. For FY 2022, Tables 2 and 3 associated with this proposed rule and the County to CBSA Crosswalk File and Urban CBSAs and Constituent Counties for Acute Care HospitalsFile posted on the CMS website reflect the latest FIPS code updates.

B. Worksheet S–3 Wage Data for the Proposed FY 2022 Wage Index

The proposed FY 2022 wage index values are based on the data collected from the Medicare cost reports submitted by hospitals for cost reporting periods beginning in FY 2018 (the FY 2021 wage indexes were based on data from cost reporting periods beginning during FY 2017).

1. Included Categories of Costs

The proposed FY 2022 wage index includes all of the following categories of data associated with costs paid under the IPPS (as well as outpatient costs):
• Salaries and hours from short-term, acute care hospitals (including paid lunch hours and hours associated with military leave and jury duty);
• Home office costs and hours;
• Certain contract labor costs and hours, which include direct patient care, certain top management, pharmacy, laboratory, and nonteaching physician Part A services, and certain contract indirect patient care services (as discussed in the FY 2008 final rule with comment period (72 FR 47315 through 47317)); and
• Wage-related costs, including pension costs (based on policies adopted in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51586 through 51590)) and other deferred compensation costs.

2. Excluded Categories of Costs

Consistent with the wage index methodology for FY 2021, the proposed wage index for FY 2022 also excludes the direct and overhead salaries and hours for services not subject to IPPS payment, such as skilled nursing facility (SNF) services, home health services, costs related to GME (teaching physicians and residents) and certified registered nurse anesthetists (CRNAs), and other subprovider components that are not paid under the IPPS. The proposed FY 2022 wage index also excludes the salaries, hours, and wage-related costs of hospital-based rural health clinics (RHCs), and Federally qualified health centers (FQHCs) because Medicare pays for these costs outside of the IPPS (68 FR 45395). In addition, salaries, hours, and wage-related costs of CAHs are excluded from the wage index for the reasons explained in the FY 2004 IPPS final rule (68 FR 45397 through 45398). For FY 2020 and subsequent years, other wage-related costs are also excluded from the calculation of the wage index. As discussed in the FY 2019 IPPS/LTCH final rule (83 FR 41365 through 41369), other wage-related costs reported on Worksheet S–3, Part II, Line 19 and Worksheet S–3, Part IV, Line 25 and subscripts, as well as all other wage-related costs, such as contract labor costs, are excluded from the calculation of the wage index.

3. Use of Wage Index Data by Suppliers and Providers Other Than Acute Care Hospitals Under the IPPS

Data collected for the IPPS wage index also are currently used to calculate wage indexes applicable to suppliers and other providers, such as SNFs, home health agencies (HHAs), ambulatory surgical centers (ASCs), and hospices. In addition, they are used for prospective payments to IRFs, IPFs, and LTCHs, and for hospital outpatient services. We note that, in the IPPS rules, we do not address comments pertaining to the wage indexes of any supplier or provider except IPPS providers and LTCHs. Such comments should be made in response to separate proposed rules for those suppliers and providers.

C. Verification of Worksheet S–3 Wage Data

The wage data for the proposed FY 2022 wage index were obtained from Worksheet S–3, Parts II and III of the Medicare cost report (Form CMS–2552–10, OMB Control Number 0938–0050 with expiration date March 31, 2022) for cost reporting periods beginning on or after October 1, 2017, and before October 1, 2018. For wage index purposes, we refer to cost reports during this period as the “FY 2018 cost report.”

The “FY 2018 wage data” or “the FY 2018 wage data” or “the FY 2018 data.” Instructions for completing the wage index sections of the wage index. In summary, we calculated the wage index. For the proposed rule, we removed 3 hospitals that converted to CAH status on or after January 24, 2020, the cut-off date for CAH exclusion from the FY 2021 wage index, and through and including January 24, 2021, the cut-off date for CAH exclusion from the FY 2022 wage index.

As in past years, we performed an extensive review of the wage index, mostly through the use of edits designed to identify aberrant data. We asked our MACs to revise or verify data elements that result in specific edit failures. For the proposed FY 2022 wage index, we identified and excluded 86 providers with aberrant data that should not be included in the wage index. If data elements for some of these providers are corrected, we intend to include data from those providers in the final FY 2022 wage index. We also adjusted certain aberrant data and included these data in the wage index. For example, in situations where a hospital did not have documentable salaries, wages, and hours for housekeeping and dietary services, we imputed estimates, in accordance with policies established in the FY 2015 IPPS/LTCH PPS final rule (79 FR 49965 through 49967).

We instructed MACs to complete their data verification of questionable data elements and to transmit any changes to the wage data no later than March 19, 2021.

In constructing the proposed FY 2022 wage index, we included the wage data for facilities that were IPPS hospitals in FY 2018, inclusive of those facilities that have since terminated their participation in the program as hospitals, as long as those data did not fail any of our edits for reasonableness. We believe including the wage data for these hospitals is, in general, appropriate to reflect the economic conditions in the various labor market areas during the relevant past period and to ensure that the current wage index represents the labor market area’s current wages as compared to the national average of wages. However, we excluded the wage data for CAHs as discussed in the FY 2004 IPPS final rule (68 FR 45397 through 45398); that is, any hospital that is designated as a CAH by 7 days prior to the publication of the preliminary wage index public use file (PUF) is excluded from the calculation of the wage index. For the proposed rule, we removed 3 hospitals that converted to CAH status on or after January 24, 2020, the cut-off date for CAH exclusion from the FY 2021 wage index, and through and including January 24, 2021, the cut-off date for CAH exclusion from the FY 2022 wage index.
We note that, in past years, in Table 2, we have placed a “B” to designate the subordinate campus in the fourth position of the hospital CCN. However, for the FY 2019 IPPS/LTCH PPS proposed and final rules and subsequent rules, we have moved the “B” to the third position of the CCN. Because all IPPS hospitals have a “0” in the third position of the CCN, we believe that placement of the “B” in this third position of the CCN is more clear and less confusing.
D. Method for Computing the Proposed FY 2022 Unadjusted Wage Index

The method used to compute the proposed FY 2022 wage index without an occupational mix adjustment follows the same methodology that we used to compute the wage indexes without an occupational mix adjustment in the FY 2021 IPPS/LTCH PPS final rule (see 85 FR 58758 through 58761, September 18, 2020), and we are not proposing any changes to this methodology. We have restated our methodology in this section of this rule.

Step 1.—We gathered data from each of the non-Federal, short-term, acute care hospitals for which data were reported on the Worksheet S–3, Parts II and III of the Medicare cost report for the hospital’s cost reporting period relevant to the proposed wage index (in this case, for FY 2022, these were data from cost reports for cost reporting periods beginning on or after October 1, 2017, and before October 1, 2018). In addition, we included data from some hospitals that had cost reporting periods beginning before October 2017 and reported a cost reporting period covering all of FY 2018. These data were included because no other data from these hospitals would be available for the cost reporting period as previously described, and because particular labor market areas might be affected due to the omission of these hospitals.

However, we generally describe these wage data as FY 2018 data. We note that, if a hospital had more than one cost reporting period beginning during FY 2018 (for example, a hospital had two short cost reporting periods beginning on or after October 1, 2017, and before October 1, 2018), we include wage data from only one of the cost reporting periods, the longer, in the wage index calculation. If there was more than one cost reporting period and the periods were equal in length, we included the wage data from the later period in the wage index calculation.

Step 2.—Salaries.—The method used to compute a hospital’s average hourly wage excludes certain costs that are not paid under the IPPS. (We note that, beginning with FY 2008 (72 FR 47315), we included what were then Lines 22.01, 26.01, and 27.01 of Worksheet S–3, Part II of CMS Form 2552–96 for overhead services in the wage index. Currently, these lines are Lines 28, 33, and 35 on CMS Form 2552–10.)

However, we note that the wages and hours on these lines are not incorporated into Line 101, Column 1 of Worksheet A, which, through the electronic cost reporting software, flows directly to Line 1 of Worksheet S–3, Part II. Therefore, the first step in the wage index calculation is to compute a “revised” Line 1, by adding to the Line 1 on Worksheet S–3, Part II (for wages and hours respectively) the amounts on Lines 28, 33, and 35.) In calculating a hospital’s Net Salaries (we note that we previously used the term “average” salaries in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51592), but we now use the term “net” salaries) plus wage-related costs, we first compute the following: Subtract from Line 1 (total salaries) the GME and CRNA costs reported on CMS Form 2552–10, Lines 2, 4.01, 7, and 7.01, the Part B salaries reported on Lines 3, 5, and 6, home office salaries reported on Line 8, and exclude salaries reported on Lines 9 and 10 (that is, direct salaries attributable to SNF services, home health services, and other subprovider components not subject to the IPPS). We also subtract from Line 1 the salaries for which no hours were reported. Therefore, the formula for Net Salaries (from Worksheet S–3, Part II) is the following: ((Line 1 + Line 28 + Line 33 + Line 35) – (Line 2 + Line 3 + Line 4.01 + Line 5 + Line 6 + Line 7 + Line 7.01 + Line 8 + Line 9 + Line 10)).

To determine Total Salaries plus Wage-Related Costs, we add to the Net Salaries the costs of contract labor for direct patient care, certain top management, pharmacy, laboratory, and nonteaching physician Part A services (Lines 11, 12, and 13), home office salaries and wage-related costs reported by the hospital on Lines 14.01, 14.02, and 15, and nonexcluded area wage-related costs (Lines 25.50, 25.51, and 25.52). We note that contract labor and home office salaries for which no corresponding hours are reported are not included. In addition, wage-related costs for nonteaching physician Part A employees (Line 22) are excluded if no corresponding salaries are reported for those employees on Line 4. The formula for Total Salaries plus Wage-Related Costs (from Worksheet S–3, Part II) is the following: ((Line 1 + Line 28 + Line 33 + Line 35) – (Line 2 + Line 3 + Line 4.01 + Line 5 + Line 6 + Line 7 + Line 7.01 + Line 8 + Line 9 + Line 10)) + (Line 11 + Line 12 + Line 13 + Line 15 + Line 17 + Line 22 + Line 25.50 + Line 25.51 + Line 25.52).

Step 3.—Hours.—With the exception of wage-related costs, for which there are no associated hours, we compute total hours using the same methods as described for salaries in Step 2. The formula for Total Hours (from Worksheet S–3, Part II) is the following: ((Line 1 + Line 28 + Line 33 + Line 35) – (Line 2 + Line 3 + Line 4.01 + Line 5 + Line 6 + Line 7 + Line 7.01 + Line 8 + Line 9 + Line 10)) + (Line 11 + Line 12 + Line 13 + Line 14.01 + 14.02 + Line 15).

Step 4.—For each hospital reporting both total overhead salaries and total overhead hours greater than zero, we then allocate overhead costs to areas of the hospital excluded from the wage index calculation. First, we determine the “excluded rate”, which is the ratio of excluded area hours to Revised Total Hours (from Worksheet S–3, Part II) with the following formula: (Line 9 + Line 10)/(Line 1 + Line 28 + Line 33 + Line 35) – (Lines 2, 3, 4.01, 5, 6, 7, 7.01, and 8 and Lines 26 through 43). We then compute the amounts of overhead salaries and hours to be allocated to the excluded areas by multiplying the above ratio by the total overhead salaries and hours reported on Lines 26 through 43 of Worksheet S–3, Part II. Next, we compute the amounts of overhead wage-related costs to be allocated to the excluded areas using three steps:

• We determine the “overhead rate” (from Worksheet S–3, Part II), which is the ratio of overhead hours (Lines 26 through 43 minus the sum of Lines 28, 33, and 35) to revised hours excluding the sum of Lines 28, 33, and 35 (Line 1 minus the sum of Lines 2, 3, 4.01, 5, 6, 7, 7.01, 8, 9, 10, 28, 33, and 35). We note that, for the FY 2008 and subsequent wage index calculations, we have been excluding the overhead contract labor (Lines 28, 33, and 35) from the determination of the ratio of overhead hours to revised hours because hospitals typically do not provide fringe benefits (wage-related costs) to contract personnel. Therefore, it is not necessary for the wage index calculation to exclude overhead wage-related costs for contract personnel. Further, if a hospital does contribute to wage-related costs for contracted personnel, the instructions for Lines 28, 33, and 35 require that associated wage-related costs be combined with wages on the respective contract labor lines. The formula for the Overhead Rate (from Worksheet S–3, Part II) is the following: (Lines 26 through 43 – Lines 28, 33, and 35)/(((Line 1 + Lines 28, 33, 35) – (Lines 2, 3, 4.01, 5, 6, 7, 7.01, 8, and 26 through 43)) – (Lines 9 and 10)) + (Lines 26 through 43) – (Lines 28, 33, and 35)).

• We compute overhead wage-related costs by multiplying the overhead hours
area to determine an average hourly wage for the area.

Step 8.—We add the total adjusted salaries plus wage-related costs obtained in Step 5 for all hospitals in the Nation and then divide the sum by the national sum of total hours from Step 4 to arrive at a national average hourly wage.

Step 9.—For each urban or rural labor market area, we calculate the hospital wage index value, unadjusted for occupational mix, by dividing the area average hourly wage obtained in Step 7 by the national average hourly wage computed in Step 8.

Step 10.—For each urban labor market area for which we do not have any hospital wage data (either because there are no IPPS hospitals in that labor market area, or there are IPPS hospitals in that area but their data are either too new to be reflected in the current year’s wage index calculation, or their data are aberrant and are deleted from the wage index), we finalized in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42305) that, for FY 2020 and subsequent years’ wage index calculations, such CBSSA’s wage index would be equal to total urban salaries plus wage-related costs (from Step 5) in the State, divided by the total urban hours (from Step 4) in the State, divided by the national average hourly wage from Step 8 (see 84 FR 42305 and 42306) (August 16, 2019).

We stated that we believe that, in the absence of wage data for an urban labor market area, it is reasonable to use a statewide average, which is based on actual, acceptable wage data of hospitals in that State, rather than impute some other type of value using a different methodology. For calculation of the proposed FY 2022 wage index, we note there is one urban CBSSA for which we do not have IPPS hospital wage data. In Table 3 (which is available via the internet on the CMS website) which contains the area wage indexes, we include a footnote to indicate to which CBSSAs this policy applies. These CBSSAs’ wage indexes would be equal to total urban salaries plus wage-related costs (from Step 5) in the respective State, divided by the total urban hours (from Step 4) in the respective State, divided by the national average hourly wage (from Step 8) (see 84 FR 42305 and 42306) (August 16, 2019). Under this step, we also apply our policy with regard to how dollar amounts, hours, and other numerical values in the wage index calculations are rounded, as discussed in this section of this rule.

We refer readers to section II. of the Appendix of this rule for the policy regarding rural areas that do not have IPPS hospitals.

Step 11.—Section 4410 of Pub. L. 105–33 provides that, for discharges on or after October 1, 1997, the area wage index applicable to any hospital that is located in an urban area of a State may not be less than the area wage index applicable to hospitals located in rural areas in that State. The areas affected by this provision are identified in Table 2 listed in section VI. of the Addendum to the proposed rule and available via the internet on the CMS website.

Following is our policy with regard to rounding of the wage data (dollar amounts, hours, and other numerical values) in the calculation of the unadjusted and adjusted wage index, as discussed in the FY 2020 IPPS/LTCH final rule (84 FR 42306; August 16, 2019). For data that we consider to be “raw data,” such as the cost report data on Worksheets S–3, Parts II and III, and the occupational mix survey data, we use such data “as is,” and do not round any of the individual line items or fields. However, for any dollar amounts within the wage index calculations, including any type of summed wage amount, average hourly wages, and the national average hourly wage (both the unadjusted and adjusted for occupational mix), we round the dollar amounts to 2 decimals. For any hour amounts within the wage index calculations, we round such hour amounts to the nearest whole number. For any numbers not expressed as dollars or hours within the wage index calculations, which could include ratios, percentages, or inflation factors, we round such numbers to 2 decimals. However, we continue rounding the actual unadjusted and adjusted wage indexes to 4 decimals, as we have done historically.

As discussed in the FY 2012 IPPS/LTCH PPS final rule, in “Step 5,” for each hospital, we adjust the total salaries plus wage-related costs to a common period to determine total adjusted salaries plus wage-related costs.

We multiply the computed overhead wage-related costs by the previously described excluded area hours ratio.

Finally, we subtract the computed overhead salaries, wage-related costs, and hours associated with excluded areas from the total salaries (plus wage-related costs) and hours derived in Steps 2 and 3.

Step 5.—For each hospital, we adjust the total salaries plus wage-related costs to a common period to determine total adjusted salaries plus wage-related costs. To make the wage adjustment, we estimate the percentage change in the employment cost index (ECI) for compensation for each 30-day increment from October 14, 2017 through April 15, 2019, for private industry hospital workers from the BLS’ Compensation and Working Conditions. We use this ECI because it reflects the price increase associated with total compensation (salaries plus fringes) rather than just the increase in salaries. In addition, the ECI includes managers as well as other hospital workers. This methodology to compute the monthly update factors uses actual quarterly ECI data and assures that the update factors match the actual quarterly and annual percent changes. We also note that, since April 2006 with the publication of March 2006 data, the BLS’ ECI uses a different classification system, the North American Industrial Classification System (NAICS), instead of the Standard Industrial Codes (SICs), which no longer exist. We have consistently used the ECI as the data source for our wages and salaries and other price proxies in the IPPS market basket, and we are not proposing to make any changes to the usage of the ECI for FY 2022.

The factors used to adjust the hospital’s data are based on the midpoint of the cost reporting period, as indicated in this rule.

Step 6.—Each hospital is assigned to its appropriate urban or rural labor market area before any reclassifications under section 1886(d)(6)(B), 1886(d)(9)(E), or 1886(d)(10) of the Act. Within each urban or rural labor market area, we add the total adjusted salaries plus wage-related costs obtained in Step 5 for all hospitals in that area to determine the total adjusted salaries plus wage-related costs for the labor market area.

Step 7.—We divide the total adjusted salaries plus wage-related costs obtained under Step 6 by the sum of the corresponding total hours (from Step 4) for all hospitals in each labor market area.
For example, the midpoint of a cost reporting period beginning January 1, 2018, and ending December 31, 2018, is June 30, 2018. An adjustment factor of 1.01780 was applied to the wages of a hospital with such a cost reporting period.

Previously, we also would provide a Puerto Rico overall average hourly wage. As discussed in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56915), prior to January 1, 2017, Puerto Rico hospitals were paid based on 75 percent of the national standardized amount and 25 percent of the Puerto Rico-specific standardized amount. As a result, we calculated a Puerto Rico specific wage index that was applied to the labor-related share of the Puerto Rico-specific standardized amount. As stated earlier, section 1886(d)(3)(E) of the Act provides for the collection of data every 3 years on the occupational mix of employees for each short-term, acute care hospital participating in the Medicare program, in order to construct an occupational mix adjustment to the wage index, for application beginning October 1, 2004 (the FY 2005 wage index). The purpose of the occupational mix adjustment is to control for the effect of hospitals’ employment choices on the wage index. For example, hospitals may choose to employ different combinations of registered nurses, licensed practical nurses, nursing aides, and medical assistants for the purpose of providing nursing care to their patients. The varying labor costs associated with these choices reflect hospital management decisions rather than geographic differences in the costs of labor.

### MIDPOINT OF COST REPORTING PERIOD

<table>
<thead>
<tr>
<th>After</th>
<th>Before</th>
<th>Adjustment Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/14/2017</td>
<td>11/15/2017</td>
<td>1.03317</td>
</tr>
<tr>
<td>11/14/2017</td>
<td>12/15/2017</td>
<td>1.03154</td>
</tr>
<tr>
<td>12/14/2017</td>
<td>01/15/2017</td>
<td>1.02988</td>
</tr>
<tr>
<td>01/14/2018</td>
<td>02/15/2018</td>
<td>1.02816</td>
</tr>
<tr>
<td>02/14/2018</td>
<td>03/15/2018</td>
<td>1.02638</td>
</tr>
<tr>
<td>03/14/2018</td>
<td>04/15/2018</td>
<td>1.02447</td>
</tr>
<tr>
<td>04/14/2018</td>
<td>05/15/2018</td>
<td>1.02238</td>
</tr>
<tr>
<td>05/14/2018</td>
<td>06/15/2018</td>
<td>1.02011</td>
</tr>
<tr>
<td>06/14/2018</td>
<td>07/15/2018</td>
<td>1.01780</td>
</tr>
<tr>
<td>07/14/2018</td>
<td>08/15/2018</td>
<td>1.01560</td>
</tr>
<tr>
<td>08/14/2018</td>
<td>09/15/2018</td>
<td>1.01350</td>
</tr>
<tr>
<td>09/14/2018</td>
<td>10/15/2018</td>
<td>1.01140</td>
</tr>
<tr>
<td>10/14/2018</td>
<td>11/15/2018</td>
<td>1.00920</td>
</tr>
<tr>
<td>11/14/2018</td>
<td>12/15/2018</td>
<td>1.00690</td>
</tr>
<tr>
<td>12/14/2018</td>
<td>01/15/2019</td>
<td>1.00456</td>
</tr>
<tr>
<td>01/14/2019</td>
<td>02/15/2019</td>
<td>1.00226</td>
</tr>
<tr>
<td>02/14/2019</td>
<td>03/15/2019</td>
<td>1.00000</td>
</tr>
<tr>
<td>03/14/2019</td>
<td>04/15/2019</td>
<td>0.99781</td>
</tr>
</tbody>
</table>

Based on the methodology, as previously discussed, the proposed FY 2022 unadjusted national average hourly wage is the following:

| Proposed FY 2022 Unadjusted National Average Hourly Wage | $46.42 |

E. Proposed Occupational Mix Adjustment to the FY 2022 Wage Index

As stated earlier, section 1886(d)(3)(E) of the Act provides for the collection of data every 3 years on the occupational mix of employees for each short-term, acute care hospital participating in the Medicare program, in order to construct an occupational mix adjustment to the wage index, for application beginning October 1, 2004 (the FY 2005 wage index). The purpose of the occupational mix adjustment is to control for the effect of hospitals’ employment choices on the wage index. For example, hospitals may choose to employ different combinations of registered nurses, licensed practical nurses, nursing aides, and medical assistants for the purpose of providing nursing care to their patients. The varying labor costs associated with these choices reflect hospital management decisions rather than geographic differences in the costs of labor.

1. Use of 2019 Medicare Wage Index

Section 304(c) of the Consolidated Appropriations Act, 2001 (Pub. L. 106–554) amended section 1886(d)(3)(E) of the Act to require CMS to collect data every 3 years on the occupational mix of employees for each short-term, acute care hospital participating in the Medicare program. As discussed in the FY 2018 IPPS/LTCH PPS proposed rule (82 FR 19903) and final rule (82 FR 38137), we collected data in 2016 to

For example, the midpoint of a cost reporting period beginning January 1, 2018, and ending December 31, 2018, is June 30, 2018. An adjustment factor of 1.01780 was applied to the wages of a hospital with such a cost reporting period.
compute the occupational mix adjustment for the FY 2019, FY 2020, and FY 2021 wage indexes. A new measurement of occupational mix is required for FY 2022.

The FY 2022 occupational mix adjustment is based on a new calendar year (CY) 2019 survey. Hospitals were required to submit their completed 2019 surveys (Form CMS–10079, OMB number 0938–0907, expiration date September 31, 2022) to their MACs by September 3, 2020. The preliminary, unaudited CY 2019 survey data were posted on the CMS website on September 8, 2020. As with the Worksheet S–3, Parts II and III cost report wage data, as part of the FY 2022 desk review process, the MACs revised or verified data elements in hospitals’ occupational mix surveys that resulted in certain edit failures.

2. Calculation of the Occupational Mix Adjustment for FY 2022

For FY 2022, we are proposing to calculate the occupational mix adjustment factor using the same methodology that we have used since the FY 2012 wage index (76 FR 51582 through 51586) and to apply the occupational mix adjustment to 100 percent of the proposed FY 2022 wage index. In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42308), we modified our methodology with regard to how dollar amounts, hours, and other numerical values in the unadjusted and adjusted wage index calculation are rounded, in order to ensure consistency in the calculation. According to the policy finalized in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42308 and 42309), for data that we consider to be “raw data,” such as the cost report data on Worksheets S–3, Parts II and III, and the occupational mix survey data, we continue to use these data “as is”, and not round any of the individual line items or fields. However, for any dollar amounts within the wage index calculations, including any type of summed wage amount, average hourly wages, and the national average hourly wage (both the unadjusted and adjusted for occupational mix), we round such dollar amounts to 2 decimals. We round any hour amounts within the wage index calculations to the nearest whole number. We round any numbers not expressed as dollars or hours in the wage index calculations, which could include ratios, percentages, or inflation factors, to 5 decimals. However, we continue rounding the actual unadjusted and adjusted wage indexes to 4 decimals, as we have done historically.

Similar to the method we use for the calculation of the wage index without occupational mix, salaries and hours for a multicampus hospital are allotted among the different labor market areas where its campuses are located. Table 2 associated with this proposed rule (which is available via the internet on the CMS website), which contains the proposed FY 2022 occupational mix adjusted wage index, includes separate wage data for the campuses of multicampus hospitals. We refer readers to section III.C. of the preamble of this proposed rule for a chart listing the multicampus hospitals and the FTE percentages used to allot their occupational mix data.

Because the statute requires that the Secretary measure the earnings and paid hours of employment by occupational category not less than once every 3 years, all hospitals that are subject to payments under the IPPS, or any hospital that would be subject to the IPPS if not granted a waiver, must complete the occupational mix survey, unless the hospital has no associated cost report wage data that are included in the proposed FY 2022 wage index. For the proposed FY 2022 wage index, we are using the Worksheet S–3, Parts II and III wage data of 3,159 hospitals, and we used the occupational mix surveys of 2,955 hospitals for which we also had Worksheet S–3 wage data, which represented a “response” rate of 94 percent (2,955/3,159). For the proposed FY 2022 wage index, we are applying proxy data for noncompliant hospitals, new hospitals, or hospitals that submitted erroneous or aberrant data in the same manner that we applied proxy data for such hospitals in the FY 2012 wage index occupational mix adjustment (76 FR 51586). As a result of applying this methodology, the proposed FY 2022 occupational mix adjusted national average hourly wage is the following:

| Proposed FY 2022 Occupational Mix Adjusted National Average Hourly Wage | $46.37 |

F. Analysis and Implementation of the Proposed Occupational Mix Adjustment and the Proposed FY 2022 Occupational Mix Adjusted Wage Index

As discussed in section III.E. of the preamble of this proposed rule, for FY 2022, we are applying the occupational mix adjustment to 100 percent of the FY 2022 wage index. We calculated the occupational mix adjustment using data from the 2019 occupational mix survey data, using the methodology described in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51582 through 51586).

The FY 2022 national average hourly wages for each occupational mix nursing subcategory as calculated in Step 2 of the occupational mix calculation are as follows:

<table>
<thead>
<tr>
<th>Occupational Mix Nursing Subcategory</th>
<th>Average Hourly Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>National RN</td>
<td>$44.29</td>
</tr>
<tr>
<td>National LPN and Surgical Technician</td>
<td>$26.80</td>
</tr>
<tr>
<td>National Nurse Aide, Orderly, and Attendant</td>
<td>$19.52</td>
</tr>
<tr>
<td>National Medical Assistant</td>
<td>$18.49</td>
</tr>
<tr>
<td>National Nurse Category</td>
<td>$37.34</td>
</tr>
</tbody>
</table>

The proposed national average hourly wage for the entire nurse category is computed in Step 5 of the occupational mix calculation. Hospitals with a nurse category average hourly wage (as calculated in Step 4) of greater than the
national nurse category average hourly wage receive an occupational mix adjustment factor (as calculated in Step 6) of less than 1.0. Hospitals with a nurse category average hourly wage (as calculated in Step 4) of less than the national nurse category average hourly wage receive an occupational mix adjustment factor (as calculated in Step 6) of greater than 1.0.

Based on the 2019 occupational mix survey data, we determined (in Step 7 of the occupational mix calculation) the following:

| National Percentage of Hospital Employees in the Nurse Category | 42% |
| National Percentage of Hospital Employees in the All Other Occupations Category | 58% |
| Range of Percentage of Hospital Employees in the Nurse Category (CBSA Level) | Low of 20 Percent in one CBSA to a high of 66 percent in another CBSA |

We compared the proposed FY 2022 occupational mix adjusted wage indexes for each CBSA to the proposed unadjusted wage indexes for each CBSA. Applying the occupational mix adjustment to the wage data resulted in the following:

<table>
<thead>
<tr>
<th>Comparison of the FY 2022 Proposed Occupational Mix Adjusted Wage Indexes to the Proposed Unadjusted Wage Indexes by CBSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Urban Areas Wage Index Increasing</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Increasing</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Increasing by Greater Than or Equal to 1 Percent But Less Than 5 Percent</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Increasing by 5 percent or More</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Increasing by Greater Than or Equal to 1 Percent But Less Than 5 percent</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Increasing by 5 Percent or More</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Decreasing</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Decreasing</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Decreasing by Greater Than or Equal to 1 Percent But Less Than 5 percent</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Decreasing by 5 Percent or More</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Decreasing by Greater Than or Equal to 1 Percent But Less than 5 Percent</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Decreasing by 5 Percent or More</td>
</tr>
<tr>
<td>Largest Positive Impact for an Urban Area</td>
</tr>
<tr>
<td>Largest Positive Impact for a Rural Area</td>
</tr>
<tr>
<td>Largest Negative Impact for an Urban Area</td>
</tr>
<tr>
<td>Largest Negative Impact for a Rural Area</td>
</tr>
<tr>
<td>Urban Areas Unchanged by Application of the Occupational Mix Adjustment</td>
</tr>
<tr>
<td>Rural Areas Unchanged by Application of the Occupational Mix Adjustment</td>
</tr>
</tbody>
</table>

These results indicate that a smaller percentage of urban areas (54.9 percent) would benefit from the occupational mix adjustment than would rural areas (57.4 percent).

We also compared the FY 2022 wage data adjusted for occupational mix from the 2019 survey to the FY 2022 wage data adjusted for occupational mix from the 2016 survey. This analysis illustrates the effect on area wage indexes of using the 2019 survey data compared to the 2016 survey data; that is, it shows whether hospitals’ wage indexes will increase or decrease under the 2019 survey data as compared to the prior 2016 survey data. Applying the occupational mix adjustment to the wage data, based on the 2019 survey, resulted in the following:
These results indicate that the wage indexes of 49.3 percent of CBSAs overall will decrease due to application of the 2019 occupational mix survey data as compared to the 2016 occupational mix survey data. Further, a larger percentage of urban areas (50.5 percent) will benefit from the use of the 2019 occupational mix survey data as compared to the 2016 occupational mix survey data than will rural areas (40.4 percent).

### G. Application of the Rural Floor, Application of the State Frontier Floor, Continuation of the Low Wage Index Hospital Policy, and Proposed Budget Neutrality Adjustment

#### 1. Rural Floor

Section 4410(a) of Public Law 105–33 provides that, for discharges on or after October 1, 1997, the area wage index applicable to any hospital that is located in an urban area of a State may not be less than the area wage index applicable to hospitals located in rural areas in that State. This provision is referred to as the rural floor. Section 3141 of Public Law 111–148 also requires that a national budget neutrality adjustment be applied in implementing the rural floor.

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42332 through 42336), we removed urban to rural reclassifications from the calculation of the rural floor to prevent inappropriate payment increases under the rural floor due to rural reclassifications, such that, beginning in FY 2020, the rural floor is calculated without including the wage data of hospitals that have reclassified as rural under section 1886(d)(8)(E) of the Act (as implemented in the regulations at § 412.103). The rural floor for this FY 2022 proposed rule continues to be calculated without the wage data of hospitals that have reclassified as rural under § 412.103. We are not proposing any changes to the rural floor policy for FY 2022. Also, for the purposes of applying the provisions of section 1886(d)(8)(C)(iii) of the Act, effective beginning in FY 2020, we remove the data of hospitals reclassified from urban to rural under section 1886(d)(8)(E) of the Act (as implemented in the regulations at § 412.103) from the calculation of “the wage index for rural areas in the State in which the county is located” as referred to in section 1886(d)(8)(C)(iii) of the Act. We are not proposing any changes to this policy for FY 2022.

Based on the FY 2022 wage index associated with this proposed rule (which is available via the internet on the CMS website) and based on the calculation of the rural floor without the wage data of hospitals that have reclassified as rural under § 412.103, we estimate that 287 hospitals would receive an increase in their FY 2022 proposed wage index due to the application of the rural floor.

#### 2. Imputed Floor

In the FY 2005 IPPS final rule (69 FR 49109 through 49111), we adopted the imputed floor policy as a temporary 3-year regulatory measure to address concerns from hospitals in all-urban States that have argued that they are disadvantaged by the absence of rural hospitals to set a wage index floor for those States. We extended the imputed floor policy eight times since its initial

<table>
<thead>
<tr>
<th>Comparison of the FY 2022 Proposed Occupational Mix Adjusted Wage Indexes: 2016 Survey to 2019 Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Urban Areas Wage Index Increasing</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Increasing</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Increasing by Greater Than or Equal to 1 Percent But Less Than 5 Percent</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Increasing by 5 percent or More</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Increasing by Greater Than or Equal to 1 Percent But Less Than 5 Percent</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Increasing by 5 Percent or More</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Decreasing</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Decreasing</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Decreasing by Greater Than or Equal to 1 Percent But Less Than 5 Percent</td>
</tr>
<tr>
<td>Number of Urban Areas Wage Index Decreasing by 5 Percent or More</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Decreasing by Greater Than or Equal to 1 Percent But Less Than 5 Percent</td>
</tr>
<tr>
<td>Number of Rural Areas Wage Index Decreasing by 5 Percent or More</td>
</tr>
<tr>
<td>Largest Positive Impact for an Urban Area</td>
</tr>
<tr>
<td>Largest Positive Impact for a Rural Area</td>
</tr>
<tr>
<td>Largest Negative Impact for an Urban Area</td>
</tr>
<tr>
<td>Largest Negative Impact for a Rural Area</td>
</tr>
<tr>
<td>Urban Areas Unchanged by Application of the Occupational Mix Adjustment</td>
</tr>
<tr>
<td>Rural Areas Unchanged by Application of the Occupational Mix Adjustment</td>
</tr>
</tbody>
</table>
methodology or the value determined under the alternative methodology. The regulations implementing the imputed floor wage index, both the original methodology and the alternative methodology, were set forth at §412.64(h)(4).

Section 9831 of the American Rescue Plan Act of 2021 (Pub. L. 117–2) enacted on March 11, 2021 amended section 1886(d)(3)(E)(i) of the Act (42 U.S.C. 1395ww(d)(3)(E)(i)) and added section 1886(d)(3)(E)(iv) of the Act to establish a minimum area wage index for hospitals in all-urban States for discharges occurring on or after October 1, 2021. Specifically, section 1886(d)(3)(E)(iv)(I) and (II) of the Act provides that for discharges occurring on or after October 1, 2021, the area wage index applicable to any hospital in an all-urban State may not be less than the minimum area wage index for the fiscal year for hospitals in that State established using the methodology described in §412.64(h)(4)(vi) as in effect for FY 2018. Thus, effective on October 1, 2021 (FY 2022), section 1886(d)(3)(E)(iv) of the Act reinstates the imputed floor wage index policy for all-urban States, with no expiration date, using the methodology described in 42 CFR 412.64(h)(4)(vi) as in effect for FY 2018. As discussed previously, under §412.64(h)(4)(vi), the minimum wage index value for hospitals in an all-urban State is the higher of the value determined using the original methodology (as set forth at §412.64(h)(4)(i)) or the value determined using alternative methodology (as set forth at §412.64(h)(4)(vi)(A) and (B)) for calculating an imputed floor. Therefore, as provided in §412.64(h)(vi), we would apply the higher of the value determined under original or alternative methodology for calculating a minimum wage index, or imputed floor, for all-urban States effective beginning with FY 2022. We note that the rural floor values used in the alternative methodology at §412.64(h)(4)(vi)(A) and (B) would not include the wage data of hospitals reclassified under §412.103, because we currently calculate the rural floor without the wage data of such hospitals.

Unlike the imputed floor that was in effect from FYs 2005 through 2018, section 1886(d)(3)(E)(iv)(I) of the Act applies to all-urban States, as defined in new subparagraph (IV), Section 1395ww(d)(3)(E)(iv) of the Act applies that for purposes of the imputed floor wage index under clause (iv), the term all-urban State means a State in which there are no rural areas (as defined in section 1886(d)(2)(D) of the Act) or a State in which there are no hospitals classified as rural under section 1886 of the Act. Under this definition, given that it applies for purposes of the imputed floor wage index, we believe it would be appropriate to consider a hospital to be classified as rural under section 1886 of the Act if it is assigned the State’s rural area wage index value.
Therefore, under the definition at section 1886(d)(3)[E][iv](IV) of the Act, “a State in which there are no hospitals classified as rural under this section” would include a State that has a rural area but no hospitals that receive the rural area wage index under section 1886(d) of the Act. For purposes of this definition, hospitals redesignated as rural under section 1886(d)(8)[E] of the Act (421.103 rural reclassifications) would be considered classified as rural if they receive the rural wage index; however, hospitals that are deemed urban under section 1886(d)(8)[B] of the Act (in Lugar counties), or are reclassified to an urban area under section 1886(d)(10) of the Act (MGCRB reclassifications) would not be considered classified as rural because they do not receive the rural wage index. In contrast, we note that in the imputed floor policy in effect from FY 2005 through FY 2018, we did not consider a State to qualify for “all urban status” if there were one or more hospitals geographically located in the rural area of the State, even if all such hospitals subsequently reclassified to receive an urban area wage index. There is currently one State, Connecticut, that would be eligible for the imputed floor under this qualification in this proposed rule because there are currently no hospitals in Connecticut that are classified as rural under section 1886(d) for purposes of the wage index—in other words, there are no hospitals that receive the rural wage index value. There is one rural county in Connecticut. All hospitals in this county are either deemed urban under section 1886(d)(8)[B] of the Act or receive an MGCRB reclassification under section 1886(d)(10) of the Act. While several Connecticut hospitals were approved for rural reclassification under section 1886(d)(8)[E] of the Act, at this point in time, all have received a subsequent urban reclassification under section 1886(d)(10) of the Act.

Additionally, under section 1861(x) of the Act, the term State has the meaning given to it in section 210(h) of the Act. Because section 210(h) of the Act defines the word State to also include the District of Columbia and the Commonwealth of Puerto Rico, Washington, DC and Puerto Rico may also qualify as all-urban States for purposes of the imputed floor if the requirements of section 1886(d)(3)[E][iv](IV) of the Act are met. Based on data available for this proposed rule, the following States would be all-urban States as defined in section 1886(d)(3)[E][iv](IV) of the Act, and thus hospitals in such States would be eligible to receive an increase in their wage index due to application of the imputed floor for FY 2022: New Jersey, Rhode Island, Delaware, Connecticut, and Washington, DC.

We are proposing to revise the regulations at §412.64(e)(1) and (4) and (h)(4) and (5) to implement the imputed floor required by section 1886(d)(3)[E][iv] of the Act for discharges occurring on or after October 1, 2021. First, we propose to make the following revisions to the regulation text to specify that the imputed floor required under section 1886(d)(3)[E][iv] of the Act would not be applied in a budget neutral manner:

- We are proposing to revise the introductory language at §412.64(e)(4) to state that the budget neutrality adjustment for the imputed floor under paragraph (h)(4) applies only to discharges on or after October 1, 2004 and before October 1, 2018.
- We are proposing a conforming revision to §412.64(b)(4)(viii) to refer to §412.64(b)(4)(vii) (proposed in this proposed rule) in the introductory phrase that excepts certain provisions from the budget neutrality requirement specified in paragraph (e)(1)(ii).

- We are proposing to revise §412.64(h)(4) to add a new clause (vii) stating that, for discharges on or after October 1, 2021, the minimum wage index computed under this paragraph may not be applied in a budget neutral manner.

In addition, we are proposing to revise the introductory language at §412.64(h)(4) to specify that the minimum wage index and methodology described in that paragraph also apply for discharges on or after October 1, 2021. Further, we are proposing to revise §412.64(h)(4)(vii) to specify that this clause also applies to discharges on or after October 1, 2021.

Finally, we are proposing to make the following revisions to §412.64(h)(5). First, we are proposing to redesignate the current language at §412.64(h)(5) as §412.64(h)(5)(i) and to revise this language to reflect that it applies for purposes of applying the imputed floor for discharges on or after October 1, 2004 and before October 1, 2018. Second, we are proposing to add a new clause (ii) to §412.64(h)(5) to reflect the proposed definition of all-urban State for purposes of applying the imputed floor for discharges on or after October 1, 2021, as previously discussed. Specifically, we are proposing at §412.64(h)(5)(ii) that, for purposes of applying the imputed floor for discharges on or after October 1, 2021, an all-urban State is a State with no rural areas, as defined in §412.64, or a State in which there are no hospitals classified as rural under section 1886 of the Act. We are further proposing at §412.64(h)(5)(ii) that a hospital would be considered classified as rural under section 1886 of the Act if it is assigned the State’s rural area wage index value.

3. State Frontier Floor for FY 2022

Section 10324 of Public Law 111–148 requires that hospitals in frontier States cannot be assigned a wage index of less than 1.0000. We refer the reader to regulations at 42 CFR 412.64(m) and to a discussion of the implementation of this provision in the FY 2011 IPPS/ LTCH PPS final rule (75 FR 50160 through 50161). In this FY 2022 IPPS/ LTCH PPS proposed rule, we are not proposing any changes to the frontier floor policy for FY 2022. In this proposed rule, 44 hospitals would receive the frontier floor value of 1.0000 for their FY 2022 proposed wage index. These hospitals are located in Montana, North Dakota, South Dakota, and Wyoming. We note that while Nevada meets the criteria of a frontier State, all hospitals within the State currently receive a wage index value greater than 1.0000.

The areas affected by the rural and frontier floor policies for the proposed FY 2022 wage index are identified in Table 2 associated with this proposed rule, which is available via the internet on the CMS website.

4. Continuation of the Low Wage Index Hospital Policy; Proposed Budget Neutrality Adjustment

To help mitigate wage index disparities, including those resulting from the inclusion of hospitals with rural reclassifications under 42 CFR 412.103 in the rural floor, in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42325 through 42339), we finalized policies to reduce the disparity between high and low wage index hospitals by increasing the wage index values for certain hospitals with low wage index values and doing so in a budget neutral manner through an adjustment applied to the standardized amounts for all hospitals, as well as by changing the calculation of the rural floor. We also provided for a transition in FY 2020 for hospitals experiencing significant decreases in their wage index values as compared to their final FY 2019 wage index, and made these changes in a budget neutral manner.

We increase the wage index for hospitals with a wage index value below the 25th percentile wage index value for a fiscal year by half the difference between the otherwise applicable final wage index value for a year for that
hospital and the 25th percentile wage index value for that year across all hospitals (the low wage index hospital policy). We stated in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42326 through 42328) that this policy will be effective for at least 4 years, beginning in FY 2020, in order to allow employee compensation increases implemented by these hospitals sufficient time to be reflected in the wage index calculation. Therefore, the policy will continue in FY 2022. In order to offset the estimated increase in IPPS payments to hospitals with wage index values below the 25th percentile wage index value, for FY 2022 and for subsequent fiscal years during which the low wage index hospital policy is in effect, we are proposing to apply a budget neutrality adjustment in the same manner as we applied it in FY 2021, as a uniform budget neutrality factor applied to the standardized amount. We refer readers to section II.A.4.b of the addendum to this proposed rule for further discussion of the budget neutrality adjustment for FY 2022. For purposes of the low wage index hospital policy, based on the data for this proposed rule, the table below displays the 25th percentile wage index value across all hospitals for FY 2022.

| FY 2022 Proposed 25th Percentile Wage Index Value | 0.8418 |

### H. Proposed FY 2022 Wage Index Tables

In the FY 2016 IPPS/LTCH PPS final rule (80 FR 49498 and 49807 through 49806), we finalized our proposal to streamline and consolidate the wage index tables associated with the IPPS proposed and final rules for FY 2016 and subsequent fiscal years. Effective beginning FY 2016, with the exception of Table 4E, we streamlined and consolidated 11 tables (Tables 2, 3A, 3B, 4A, 4B, 4C, 4D, 4F, 4J, 9A, and 9C) into 2 tables (Tables 2 and 3). In this FY 2022 IPPS/LTCH PPS proposed rule, as provided beginning with the FY 2021 IPPS/LTCH PPS final rule, we have included Table 4A which is titled “List of Counties Eligible for the Out-Migration Adjustment Under Section 1886(d)(13) of the Act” and Table 4B titled “Counties redesignated under section 1886(d)(8)(B) of the Act (Lugar Counties).” We refer readers to section VI. of the Addendum to this proposed rule for a discussion of the wage index tables for FY 2022.

### 1. Proposed Revisions to the Wage Index Based on Hospital Redesignations and Reclassifications

#### 1. General Policies and Effects of Reclassification and Redesignation

Under section 1886(d)(10) of the Act, the Medicare Geographic Classification Review Board (MGCRB) considers applications by hospitals for geographic recategorization for purposes of payment under the IPPS. Hospitals must apply to the MGCRB to reclassify not later than 13 months prior to the start of the fiscal year for which recategorization is sought (usually by September 1). We note that this deadline was extended for applications for FY 2022 recategorizations to 15 days after the public display date of the FY 2021 IPPS/LTCH final rule at the Office of the Federal Register, using our authority under Section 1135(b)(5) of the Act due to the COVID–19 Public Health Emergency. Generally, hospitals must be proximate to the labor market area to which they are seeking recategorization and must demonstrate characteristics similar to hospitals located in that area. The MGCRB issues its decisions by the end of February for recategorizations that become effective for the following fiscal year (beginning October 1). The regulations applicable to recategorizations by the MGCRB are located in 42 CFR 412.230 through 412.280. (We refer readers to a discussion in the FY 2002 IPPS final rule (66 FR 39874 and 39875) regarding how the MGCRB defines mileage for purposes of the proximity requirements.) The general policies for recategorizations and redesignations and the policies for the effects of hospitals’ recategorizations and redesignations on the wage index are discussed in the FY 2012 IPPS/LTCH PPS final rule for FY 2012 final wage index (76 FR 51595 and 51596). We note that rural hospitals recategorizing under the MGCRB to another State’s rural area are not eligible for the rural floor, because the rural floor may apply only to urban, not rural, hospitals.

In addition, in the FY 2012 IPPS/LTCH PPS final rule, we discussed the effects on the wage index of urban hospitals reclassifying to rural areas under 42 CFR 412.103. In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42332 through 42336), we finalized a policy to exclude the wage data of urban hospitals reclassifying to rural areas under 42 CFR 412.103 from the calculation of the rural floor. Hospitals that are geographically located in States without any rural areas are ineligible to apply for rural recategorization in accordance with the provisions of 42 CFR 412.103.

On April 21, 2016, we published an interim final rule with comment period (IFC) in the Federal Register (81 FR 23428 through 23438) that included provisions amending our regulations to allow hospitals nationwide to have simultaneous §412.103 and MGCRB recategorizations. For recategorizations effective beginning FY 2018, a hospital may acquire rural status under §412.103 and subsequently apply for a recategorization under the MGCRB using distance and average hourly wage criteria designated for rural hospitals. In addition, we provided that a hospital that has an active MGCRB recategorization and is then approved for redesignation under §412.103 will not lose its MGCRB recategorization; such a hospital receives a recategorized urban wage index during the years of its active MGCRB recategorization and is still considered rural under section 1886(d) of the Act and for other purposes.

We discussed that when there is both a §412.103 redesignation and an MGCRB recategorization, the MGCRB recategorization controls for wage index calculation and payment purposes. We exclude hospitals with §412.103 redesignations from the calculation of the recategorized rural wage index if they also have an active MGCRB recategorization to another area. That is, if an application for urban recategorization through the MGCRB is approved, and is not withdrawn or terminated by the hospital within the established timelines, we consider the hospital’s geographic CBSA and the urban CBSA to which the hospital is recategorized under the MGCRB for the wage index calculation. We refer readers to the April 21, 2016 IFC (81 FR 23428 through 23438) and the FY 2017 IPPS/LTCH PPS final rule (81 FR 56922).
through 56930) for a full discussion of the effect of simultaneous reclassifications under both the § 412.103 and the MGCRB processes on wage index calculations. For a discussion on the effects of reclassifications under § 412.103 on the rural area wage index and the calculation of the rural floor, we refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42332 through 42336).

We refer readers to the interim final rule with comment period (IFC) (CMS–1762–IFC) simultaneously submitted for public inspection with this proposed rule and published elsewhere in this issue of the Federal Register implementing the court’s decision in Bates Cnty. Mem’l Hosp. (“Bates”) v. Azar for further changes to the treatment of § 412.103 hospitals reclassifying under the MGCRB.

2. MGCRB Reclassification and Redesignation Issues for FY 2022
   a. FY 2022 Reclassification Application Requirements and Approvals

As previously stated, under section 1886(d)(10) of the Act, the MGCRB considers applications by hospitals for geographic reclassification for purposes of payment under the IPPS. The specific procedures and rules that apply to the geographic reclassification process are outlined in regulations under 42 CFR 412.230 through 412.280. At the time this proposed rule was drafted, the MGCRB had completed its review of FY 2022 reclassification requests. Based on such reviews, there are 496 hospitals approved for wage index reclassifications by the MGCRB starting in FY 2022. Because MGCRB wage index reclassifications are effective for 3 years, for FY 2022, hospitals reclassified beginning in FY 2020 or FY 2021 are eligible to continue to be reclassified to a particular labor market area based on such prior reclassifications for the remainder of their 3-year period. There were 245 hospitals approved for wage index reclassifications in FY 2020 that will continue for FY 2022, and 317 hospitals approved for wage index reclassifications in FY 2021 that will continue for FY 2022. Of all the hospitals approved for reclassification for FY 2020, FY 2021, and FY 2022, based upon the review at the time of this proposed rule, 1,058 hospitals are in a MGCRB reclassification status for FY 2022 (with 161 of these hospitals reclassified back to their geographic location).

Under the regulations at 42 CFR 412.273, hospitals that have been reclassified by the MGCRB are permitted to withdraw their applications if the request for withdrawal is received by the MGCRB any time before the MGCRB issues a decision on the application, or after the MGCRB issues a decision, provided the request for withdrawal is received by the MGCRB within 45 days of the date that CMS’ annual notice of proposed rulemaking is issued in the Federal Register concerning changes to the inpatient hospital prospective payment system and proposed payment rates for the fiscal year for which the application has been filed. For information about withdrawing, terminating, or canceling a previous withdrawal or termination of a 3-year reclassification for wage index purposes, we refer readers to § 412.273, as well as the FY 2002 IPPS final rule (66 FR 39887 through 39888) and the FY 2003 IPPS final rule (67 FR 50065 through 50066). Additional discussion on withdrawals and terminations, and clarifications regarding reinstating reclassifications and “fallback” reclassifications were included in the FY 2008 IPPS final rule (72 FR 47333) and the FY 2018 IPPS/LTCH PPS final rule (82 FR 38148 through 38150).

Finally, we note that in the FY 2021 IPPS/LTCH final rule (85 FR 58771–58778), CMS finalized an assignment policy for hospitals reclassified to CBSAs from which one or more counties moved to a new or different urban CBSA under the revised OMB delineations based on OMB Bulletin 18–04. We provided a table in that rule (85 FR 58777 and 58778) which described the assigned CBSA for all the MGCRB cases subject to such reclassifications that continue to be active or are reinstated for FY 2022 (and FY 2023, if applicable), the CBSAs assigned in the FY 2021 IPPS/LTCH final rule continue to be in effect.

b. Proposed Revisions to the Regulations at § 412.278 for Administrator’s Review

The regulation at § 412.278(b) addresses the procedure for a hospital’s request for the Administrator’s review of an MGCRB decision. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58788), we eliminated the prohibition on submitting a request by facsimile or other electronic means so that hospitals may also submit requests for Administrator review of MGCRB decisions electronically. In addition, we updated the regulation at § 412.278(b)(1) to require the hospital to submit an electronic copy of its request for review to CMS’s Hospital and Ambulatory Policy Group. We specified that copies to CMS’s Hospital and Ambulatory Policy Group should be submitted via email to wage.index@cms.hhs.gov. In this proposed rule, we are proposing to further revise the regulation at § 412.278(b)(1) to specify that the hospital’s request for review must be in writing and sent to the Administrator, in care of the Office of the Attorney Advisor, in the manner directed by the Office of the Attorney Advisor. We believe that this additional language would provide clarity and specificity by addressing any changes to the future technology platform for submission of the hospital’s request for Administrator review. Hospitals will continue to be notified of the procedure for requesting Administrator review in the decision letters issued by the MGCRB.

The regulation at § 412.278(f)(2) addresses the timing for the Administrator’s decision. Specifically, the Administrator issues a decision in writing to the party with a copy to CMS not later than 90 calendar days following the receipt of the party’s request for review (§ 412.278(f)(2)(i)), or not later than 105 calendar days following issuance of the MGCRB decision in the case of review at the discretion of the Administrator (§ 412.278(f)(2)(ii)). While the regulation at § 412.278(f)(2)(i) allows the Administrator to toll the 90 day timeframe for good cause, the regulation at § 412.278(f)(2)(ii) does not expressly provide for tolling the 105 day timeframe in the case of review at the discretion of the Administrator. We believe the policy regarding tolling should be the same regardless of whether the Administrator exercises review at the request of the hospital or at her discretion. Therefore, we are proposing to also provide for tolling of the 105 day timeframe at § 412.278(f)(2)(ii). Specifically, we are proposing to revise § 412.278(f)(2)(ii) to state that the Administrator issues a decision in writing to the party with a copy to CMS not later than 105 days following issuance of the MGCRB decision in the case of review at the discretion of the Administrator, except the Administrator may, at his or her discretion, for good cause shown, toll such 105 days.

3. Redesignations Under Section 1886(d)(8)(B) of the Act (Lugar Status Determinations)

In the FY 2012 IPPS/LTCH PPS final rule (76 FR 51599 through 51600), we adopted the policy that, beginning with FY 2012, an eligible hospital that waives its Lugar status in order to receive the out-migration adjustment has effectively waived its deemed urban status and, thus, is rural for all purposes under the IPPS effective for the fiscal year in which the hospital receives the out-migration adjustment. In addition, in
of the Act. We stated that final rule wage index values would be recalculated to reflect this reclassification, and in some instances, after taking into account this reclassification, the out-migration adjustment for the county in question could be restored in the final rule. However, as the hospital is assigned a Lugar reclassification under section 1886(d)(8)(B) of the Act, it would be ineligible to receive the county out-migration adjustment under section 1886(d)(13)(G) of the Act.

J. Proposed Out-Migration Adjustment Based on Commuting Patterns of Hospital Employees

In accordance with section 1886(d)(13) of the Act, as added by section 505 of Public Law 108–173, beginning with FY 2005, we established a process to make adjustments to the hospital wage index based on commuting patterns of hospital employees (the “out-migration adjustment”). This process, outlined in the FY 2005 IPPS final rule (69 FR 49061), provides for an increase in the wage index for hospitals located in certain counties that have a relatively high percentage of hospital employees who reside in the county but work in a different county (or counties) with a higher wage index.

Section 1886(d)(13)(B) of the Act requires the Secretary to use data the Secretary determines to be appropriate to establish the qualifying counties. When the provision of section 1886(d)(13) of the Act was implemented for the FY 2005 wage index, we analyzed commuting data compiled by the U.S. Census Bureau that were derived from a special tabulation of the 2000 Census journey-to-work data for all industries (CMS extracted data applicable to hospitals). These data were compiled from responses to the “long-form” survey, which the Census Bureau used at that time and which contained questions on where residents in each county worked (69 FR 49062). However, the 2010 Census was “short form” only; information on where residents in each county worked was not collected as part of the 2010 Census. The Census Bureau worked with CMS to provide an alternative dataset based on the latest available data on where residents in each county worked in 2010, for use in developing a new out-migration adjustment based on new commuting patterns developed from the 2010 Census data beginning with FY 2016.

To determine the out-migration adjustments and applicable counties for FY 2016, we analyzed commuting data compiled by the Census Bureau that were derived from a custom tabulation of the American Community Survey (ACS), an official Census Bureau survey, utilizing 2008 through 2012 (5-year) Microdata. The data were compiled from responses to the ACS questions regarding the county where workers reside and the county to which workers commute. As we discussed in prior IPPS/LTCH PPS final rules, most recently in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58787), we have applied the same policies, procedures, and computations since FY 2012. We are proposing to use them again for FY 2022, as we believe they continue to be appropriate. We refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49500 through 49502) for a full explanation of the revised data source.

For FY 2022, the out-migration adjustment will continue to be based on the data derived from the custom tabulation of the ACS utilizing 2008 through 2012 (5-year) Microdata. For future fiscal years, we may consider determining out-migration adjustments based on data from the next Census or other available data, as appropriate. For FY 2022, we are not proposing any changes to the methodology or data source that we used for FY 2016 (81 FR 25071). (We refer readers to a full discussion of the out-migration adjustment, including rules on deeming hospitals reclassified under section 1886(d)(8) or section 1886(d)(10) of the Act to have waived the out-migration adjustment, in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51601 through 51602).)

Table 2 associated with this proposed rule (which is available via the internet on the CMS website) includes the proposed out-migration adjustments for the FY 2022 wage index. In addition, Table 4A associated with this proposed rule, “List of Counties Eligible for the Out-Migration Adjustment under Section 1886(d)(13) of the Act” (also available via the internet on the CMS website) consists of the following: A list of counties that are eligible for the out-migration adjustment for FY 2022 identified by FIPS county code, the proposed FY 2022 out-migration adjustment, and the number of years the adjustment will be in effect.

K. Reclassification From Urban to Rural Under Section 1886(d)(8)(E) of the Act Implemented at 42 CFR 412.103

1. Application for Rural Status and Lock-In Date

Under section 1886(d)(8)(E) of the Act, a qualifying prospective payment hospital located in an urban area may
apply for rural status for payment purposes separate from reclassification through the MGCRB. Specifically, section 1886(d)(8)(E) of the Act provides that, not later than 60 days after the receipt of an application (in a form and manner determined by the Secretary) from a subsection (d) hospital that satisfies certain criteria, the Secretary shall treat the hospital as being located in the rural area (as defined in paragraph (2)(D)) of the State in which the hospital is located. We refer readers to the regulations at 42 CFR 412.103 for the general criteria and application requirements for a subsection (d) hospital to reclassify from urban to rural status in accordance with section 1886(d)(8)(E) of the Act. The FY 2012 IPPS/LTCH PPS final rule (76 FR 51595 through 51596) includes our policies regarding the effect of wage data from reclassified or redesignated hospitals. We refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42332 through 42336) for a discussion on our current policy to calculate the rural floor without the wage data of urban hospitals reclassifying to rural areas under 42 CFR 412.103.

Because the wage index is part of the methodology for determining the prospective payments to hospitals for each fiscal year, we stated in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56931) that we believed there should be a definitive timeframe within which a hospital must apply for rural status in order for the reclassification to be reflected in the next Federal fiscal year’s wage data used for setting payment rates. Therefore, in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56931 through 56932), we revised § 412.103(b) by adding paragraph (6) to add a lock-in date by which a hospital’s application for rural status must be filed in order to be treated as rural in the wage index and budget neutrality calculations for payment rates for the next Federal fiscal year. In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41384 through 41386), we changed the lock-in date to provide for additional time in the ratesetting process and to match the lock-in date with another existing deadline, the usual public comment deadline for the IPPS proposed rule. We revised § 412.103(b)(6) to specify that, in order for a hospital to be treated as rural in the wage index and budget neutrality calculations under § 412.64(e)(1)(i)(ii), (e)(2) and (4), and (h) for payment rates for the next Federal fiscal year, the hospital’s application must be approved by the CMS Regional Office in accordance with the requirements of § 412.103 no later than 60 days after the public display date at the Office of the Federal Register of the IPPS proposed rule for the next Federal fiscal year.

The lock-in date does not affect the timing of payment changes occurring at the hospital-specific level as a result of reclassification from urban to rural under § 412.103. As we discussed in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56931) and the FY 2019 IPPS/LTCH PPS final rule (83 FR 41385 through 41386), this lock-in date also does not change the current regulation that allows hospitals that qualify under § 412.103(a) to request, at any time during a cost reporting period, to reclassify from urban to rural. A hospital’s rural status and claims payment reflecting its rural status continue to be effective on the filing date of its reclassification application, which is the date the CMS Regional Office receives the application, in accordance with § 412.103(d). The hospital’s IPPS claims will be paid reflecting its rural status beginning on the filing date (the effective date) of the reclassification, regardless of when the hospital applies.

2. Proposed Changes to Cancellation Requirements at § 412.103(g)

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42322), we noted that if an application is approved by the CMS Regional Office after our ratesetting lock-in date, the final rule rural wage index value would most likely not include the data for this hospital in the ratesetting calculation. Therefore, we noted that this may incentivize relatively low wage index hospitals to time their applications to avoid reducing the State’s rural wage index. These hospitals could then conceivably cancel their rural reclassifications (effective for next FY), and then reapply again after the ‘lock-in date.’ We stated in the FY 2020 IPPS/LTCH PPS final rule that we planned to monitor this situation over the course of FY 2020, and determine if it is necessary to take action to prevent this type of gaming in future rulemaking.

We stated in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58788) that hospitals in certain states were indeed timing their rural reclassifications and applications to exploit the rural reclassification process in order to obtain higher wage index values. For example, for FY 2020, at least twenty-one hospitals in one State obtained § 412.103 rural reclassifications after the FY 2020 lock-in date, effectively receiving their State’s rural wage index without including their wage data included, which would have lowered their State’s rural wage index. These hospitals then requested to cancel their § 412.103 rural reclassifications effective for FY 2021, in accordance with § 412.103(g)(3). Similarly, five hospitals in another State, hospitals with wage data that would have lowered their State’s FY 2021 rural wage index, requested to cancel their § 412.103 rural reclassifications for FY 2021, so that the rural wage index would be set using the data of one geographically rural hospital and two hospitals reclassified under § 412.103 that withdrew their MGCRB reclassifications for FY 2021. All five of these hospitals that withdrew their rural reclassification effective October 1, 2021 have since reapplied and been approved for rural reclassification. At least a dozen additional hospitals in this State were also approved for rural reclassification during FY 2021. By timing their applications to be approved after the lock-in date, these hospitals are receiving a higher rural wage index without having their own data included in the rural wage index calculation. We believe this practice of applying for and canceling rural reclassification to manipulate a State’s rural wage index is detrimental to the stability and the accuracy of the Medicare wage index system.

In the FY 2008 IPPS/LTCH final rule (72 FR 47371 through 47373), CMS addressed an issue of hospitals applying for rural reclassification and then requesting cancelation soon after approval. Certain hospitals were using rural reclassifications to obtain RRC status, then canceling their rural reclassification so they could obtain an MGCRB reclassification, and using their prior RRC status in order to benefit from favorable MGCRB reclassification rules. To address this, CMS finalized a policy that required such hospitals to maintain rural status for one full cost reporting period before their rural reclassification could be canceled (cancelation was not effective until the hospital had been reclassified as rural for at least one 12-month cost-reporting period, and not until the beginning of the FY following the request for cancelation and the 12-month cost reporting period (§ 412.103(g)(2)(ii)). As discussed in the FY 2008 IPPS/LTCH proposed rule (72 FR 24812), we stated that we believed this policy was reasonable, given that acquired rural status for IPPS hospitals should be a considered decision for hospitals that truly wish to be considered as rural, and not purely as a mechanism for reclassifying. In the April 21, 2016 interim final rule with comment period (81 FR 23424 through 23438), CMS implemented provisions amending our regulations to allow
hospitals nationwide to have simultaneous § 412.103 and MGCRB reclassifications. In the FY 2020 IPPS/LTCH final rule (42320 through 42321), CMS removed the requirement that RRCs must be paid as rural for one cost reporting year before canceling rural reclassification, as there no longer was an incentive to obtain and then cancel rural reclassification status to obtain an MGCRB reclassification. However, given our observations over the past two fiscal years of a new form of wage index gaming, as described in the previous paragraph, we believe it is necessary and appropriate to adopt a similar measure to prevent rural reclassifications from being used purely as a mechanism for statewide wage index manipulation.

Specifically, we are proposing that requests to cancel rural reclassifications must be submitted to the CMS Regional Office not earlier than one calendar year after the reclassification effective date. For example, a hospital that was approved to receive a rural reclassification effective October 1, 2021 would not be eligible to request cancelation until October 1, 2022. We are also proposing an additional modification to the effective date of these cancelation requests. Currently, all rural reclassification requests must be submitted not less than 120 days before the end of a fiscal year (that is, assuming the fiscal year ends on September 30th, no cancellation requests may be submitted after June 2nd and before October 1st). This timeframe typically aligns closely with the rural reclassification lock-in date under § 412.103(b)(6) (the hospital’s rural reclassification application must be approved by the CMS Regional Office no later than 60 days after the public display date of the IPPS/LTCH PPS proposed rule at the Office of the Federal Register in order for a hospital to be treated as rural in the wage index and budget neutrality calculations for the next Federal fiscal year). The lock-in date and the 120 day cancelation deadline provide timeframes within which a hospital must be approved for rural reclassification (to have its rural status included in the wage index and budget neutrality calculations for the next fiscal year) or request cancelation of rural status, respectively, and also give CMS adequate time to incorporate these changes in the wage index and budget neutrality calculations under § 412.64(e)(1)(ii), (e)(2) and (4), and (h) for payment rates for the next Federal fiscal year. Rural reclassifications are effective as of the date the application is received (§ 412.103(b)(5), (d)), and CMS Regional Offices are required to render a determination within 60 days of receipt of the application (§ 412.103(c)). We believe that even with the proposed one-year minimum reclassification period before cancelation can be requested, there still would be a possibility that hospitals could time their applications around the lock-in date and 120 day deadline to continue to manipulate the State’s rural wage index calculation. For example, assuming the lock-in date for a given year was May 30th (that is, the date by which the Regional Office must approve the application in order for the rural reclassification to be included in the wage index and budget neutrality calculations for the upcoming fiscal year), a hospital may choose to apply for rural reclassification on May 25th, virtually assuring that it could not be approved in time to be considered for wage index development purposes for the upcoming fiscal year. Assuming our one-year minimum reclassification period proposal is finalized, the hospital could request cancelation on May 25th the following year. Since that date would be prior to 120 day cancelation deadline, a hospital could once again cancel its rural reclassification, then resubmit for rural reclassification status, and once again receive the rural wage index for the upcoming fiscal year while excluding its own wage data from the calculation. To address this rural wage index manipulation, we are proposing to eliminate the current rule at § 412.103(g)(3) (that cancelation must be requested 120 days prior to the end of the fiscal year and is effective beginning with the next fiscal year) and replace it with a policy that ensures that a hospital approved for rural reclassification (and that does not receive an additional reclassification) would have its data included in the calculation of the rural wage index for at least one Federal fiscal year before the rural reclassification status could be canceled. Specifically, we are proposing to make cancelation requests effective for the Federal fiscal year that begins in the calendar year after the calendar year in which the cancelation request is submitted. For example, we are proposing that a cancelation request submitted on December 31, 2021 would be effective October 1, 2022. But a cancelation request submitted one day later on January 1, 2022 would not become effective until October 1, 2023. Specifically, we are proposing to add 412.103(g)(4) to state that for all written request submitted by hospitals on or after October 1, 2021, to cancel rural reclassifications, a hospital may cancel its rural reclassification by submitting a written request to the CMS Regional Office not less than 1 calendar year after the effective date of the rural reclassification. The hospital’s cancelation of its rural reclassification would be effective beginning the Federal fiscal year that begins in the calendar year following the calendar year in which the cancelation request is submitted. We are also proposing to make conforming revisions to § 412.103(g)(3) to reflect that the rule in § 412.103(g)(3) applies to requests for cancelation of rural reclassification submitted on or after October 1, 2019 and before October 1, 2021.

We considered an alternative policy to increase the current 120 day cancelation deadline to a sufficient number of days to ensure that hospitals could not time applications and cancelations to straddle the lock-in date. Given the floating nature of the lock-in date due to the publication of the proposed rule varying year to year, it is difficult to determine how long that period would need to be in order to ensure our policy goals of preventing rural wage index manipulation are met. We acknowledge that our proposals would increase the amount of time a hospital must retain rural reclassification before it could cancel that status. However, we do not believe these proposed changes would have an undue impact on hospitals. In the FY 2021 final rule, 81 percent of hospitals with rural reclassifications were assigned a wage index based on an MGCRB or “Lugar” reclassification, and would not receive a wage index based on their rural reclassification. Another 11 percent received a rural wage index value that was greater than or equal to their geographically urban area. Since these hospitals are typically benefiting by maintaining rural reclassification status, we do not believe they would be negatively affected by our proposals. More than half of the remaining 9 percent of hospitals with rural reclassifications do so to maintain MDH or SCH status. These special statuses convey additional financial benefits to hospitals and are not typically or routinely canceled by hospitals. We note that in the FY 2008 IPPS/LTCH final rule (72 FR 47372), we addressed a comment that expressed concern that the proposed requirement that a hospital must maintain rural status for at least a full 12 months could adversely affect hospitals with SCH

---

\[1\] "Lugar" hospitals may reclassify as rural and retain the urban wage index deemed under section 1886(d)(8)(B) of the Act, as discussed in the FY 2017 IPPS/LTCH final rule (81 FR 56920).
status since the payment rate as a rural SCH may be only slightly higher than the urban Federal rate. Since the form of wage index manipulation addressed by the proposed policy in FY 2008 specifically involved hospitals acquiring rural status to become RRCs, CMS opted to limit the policy finalized in FY 2008 to RRCs only. By contrast, the form of wage index manipulation we are addressing in this proposed rule is not limited to any specific hospital type. Therefore, we believe it is appropriate to apply it to all hospitals with rural reclassification status. We believe the proposed policy of requiring that rural reclassification be in effect for at least one year before cancelation can be requested, and the proposed policy to make rural reclassification cancelations effective beginning the Federal fiscal year that begins in the calendar year after the calendar year in which the cancelation request is submitted would reduce the instances of wage index manipulation described previously, as well as reduce volatility and promote accuracy in overall wage index values by ensuring that hospitals that are being paid a State’s rural wage index are eventually included, when applicable, in that rural wage index calculation. We note that this form of manipulation (hospitals canceling rural status to remove their wage data from the rural wage index calculation) resulted in the rural wage index for one state increasing by over 4 percent between the FY 2020 proposed rule and the FY 2020 final rule. Based on our analysis, that figure could have been significantly greater (as high as 10 percent) in certain States. We further believe these proposed policies provide adequate time for hospitals to review their reclassification status and make appropriate decisions for future fiscal years. Hospitals that meet the proposed one-year minimum requirement in proposed § 412.103(g)(4) would have opportunity between the publication date of the final rule (and potential correction notices) and the end of the calendar year to evaluate whether to cancel or maintain their rural status for the next fiscal year.

3. Modification of Limitations on Redesignation by the Medicare Geographic Classification Review Board Interim Final Rule (CMS—1762–IFC) to implement Bates Co. v. Azar Adverse Court Decision

In the interim final rule with comment period (IFC) (CMS—1762–IFC) simultaneously submitted for public inspection with this proposed rule and published elsewhere in this issue of the Federal Register, CMS made regulatory changes in order to align our policy with the decision in Bates County Memorial Hospital v. Azar, 464 F. Supp. 3d 43 (D.D.C. 2020). Specifically, the IFC revised the regulations at § 412.230 to allow hospitals with a rural redesignation under a rural area's geographic area in which the hospital is located effective with redesignations beginning with fiscal year (FY) 2023. We would also apply the policy in the IFC when deciding timely appeals before the Administrator of applications for redesignifications beginning with FY 2022 that were denied by the MGCRB due to the policy in effect prior to the IFC, which did not permit hospitals with rural redesignations to use the rural area’s wage data for purposes of redesignifying under the MGCRB.

L. Process for Requests for Wage Index Data Corrections

1. Process for Hospitals To Request Wage Index Data Corrections

The preliminary, unaudited Worksheet S–3 wage data files for the proposed FY 2022 wage index were made available on May 18, 2020 and the preliminary CY 2019 occupational mix data files for the proposed FY 2022 wage index were made available on September 8, 2020 through the internet on the CMS website at: https://www.cms.gov/medicare-fee-service-payment/medicare-provider-wage-index/files/fy-2022-wage-index-homepage. On January 29, 2021, we posted a public use file (PUF) at: https://www.cms.gov/medicare-fee-service-payment/medicare-provider-wage-index/files/fy-2022-wage-index-homepage containing FY 2022 wage index data available as of January 28, 2021. This PUF contains a tab with the Worksheet S–3 wage data (which includes WorkGroup S–3, Parts II and III wage data from cost reporting periods beginning on or after October 1, 2017 through September 30, 2018; that is, FY 2018 wage data), a tab with the occupational mix data (which includes data from the CY 2019 occupational mix survey, Form CMS–10079), a tab containing the Worksheet S–3 wage data of hospitals deleted from the January 29, 2021 wage data PUF, and a tab containing the CY 2019 occupational mix data of the hospitals deleted from the January 29, 2021 occupational mix PUF. In a memorandum dated April 14, 2020, we instructed all MACs to inform the IPPS hospitals that they were required to submit the new CY 2019 occupational mix surveys by August 3, 2020 and the process and timeframe for requesting revisions. Subsequently, in a memorandum dated July 31, 2020, we revised the date hospitals were required to submit the new CY 2019 occupational mix surveys from August 3, 2020 to September 3, 2020, the date the preliminary CY 2019 occupational mix survey data files were scheduled to be posted from August 6, 2020 to September 8, 2020 and the timeframe for requesting revisions to the new CY 2019 occupational mix survey data.

If a hospital wished to request a change to its data as shown in the May 18, 2020 preliminary wage data files (or September 8, 2020 preliminary CY 2019 occupational mix data files), the hospital had to submit corrections along with complete, detailed supporting documentation to its MAC so that the MAC received them by September 3, 2020 (or by September 10, 2020 for preliminary CY 2019 occupational mix survey data files). Hospitals were notified of these deadlines and of all other deadlines and requirements, including the requirement to review and verify their data as posted in the preliminary wage index data files on the internet, through the letters sent to them by their MACs. November 16, 2020 was the deadline for MACs to complete all desk reviews for hospital wage and occupational mix data and transmit revised Worksheet S–3 wage data and occupational mix data to CMS. November 5, 2020 was the date by which MACs notified State hospital.
associations regarding hospitals that failed to respond to issues raised during the desk reviews. Additional revisions made by the MACs were transmitted to CMS throughout January 2021. CMS published the wage index PUFs that included hospitals’ revised wage index data on January 29, 2021. Hospitals had until February 16, 2021, to submit requests to the MACs to correct errors in the January 29, 2021 PUF due to CMS or MAC mishandling of the wage index data, or to revise desk review adjustments to their wage index data as included in the January 29, 2021 PUF. Hospitals also were required to submit sufficient documentation to support their requests. Hospitals’ requests and supporting documentation must be received by the MAC by the February deadline (that is, by February 16, 2021 for the FY 2021 wage index).

After reviewing requested changes submitted by hospitals, MACs were required to transmit to CMS any additional revisions resulting from the hospitals’ reconsideration requests by March 19, 2021. Under our current policy as adopted in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38153), which is also the deadline for a hospital to request CMS intervention in cases where a hospital disagreed with a MAC’s handling of wage data on any basis (including a policy, factual, or other dispute) was April 2, 2021. Data that were incorrect in the preliminary or January 29, 2021 wage index data PUFs, but for which no correction request was received by the February 16, 2021 deadline, are not considered for correction at this stage. In addition, April 2, 2021 was the deadline for hospitals to dispute data corrections made by CMS of which the hospital was notified after the January 29, 2021 PUF and at least 14 calendar days prior to May 28, 2021 (that is, May 14, 2021), that do not arise from a hospital’s request for wage data revisions as discussed earlier).

After the release of the April 2021 wage index data PUFs, changes to the wage and occupational mix data can only be made in those very limited situations involving an error by the MAC or CMS that the hospital could not have known about before its review of the final wage index data files. Specifically, neither the MAC nor CMS will approve the following types of requests:

- Requests for wage index data corrections that were submitted too late to be included in the data transmitted to CMS by the MACs on or before March 19, 2021.
- Requests for correction of errors that were not, but could have been, identified during the hospital’s review of the January 29, 2021 wage index PUFs.
- Requests to revisit factual determinations or policy interpretations made by the MAC or CMS during the wage index data correction process.

If, after reviewing the April 2021 final wage index data PUFs, a hospital believes that its wage or occupational mix data are incorrect due to a MAC or CMS error in the entry or tabulation of the final data, the hospital is given the opportunity to notify both its MAC and CMS regarding why the hospital believes an error exists and provide all supporting information, including relevant dates (for example, when it first became aware of the error). The hospital is required to send its request to CMS and to the MAC so that it is received no later than May 28, 2021. May 28, 2021 is also the deadline for hospitals to dispute data corrections made by CMS of which the hospital is notified on or after 13 calendar days prior to April 2, 2021 (that is, March 20, 2021), and at least 14 calendar days prior to May 28, 2021 (that is, May 14, 2021), that do not arise from a hospital’s request for revisions. (Data corrections made by CMS of which a hospital was notified on or after 13 calendar days prior to May 28, 2021 (that is, May 15, 2021) may be appealed to the Provider Reimbursement Review Board (PRRB)).

In accordance with the FY 2022 wage index timeline posted on the CMS website at: https://www.cms.gov/files/download/fy-2022-hospital-wage-index-development-time-table.pdf, the May appeals are required to be sent via mail and email to CMS and the MACs. We refer readers to the wage index timeline for complete details.

Verified corrections to the wage index data received timely (that is, by May 28, 2021) by CMS and the MACs will be incorporated into the final FY 2022 wage index, which will be effective October 1, 2021.

We created the processes previously described to resolve all substantive wage index data correction disputes before we finalize the wage and occupational mix data for the FY 2022 payment rates. Accordingly, hospitals that do not meet the procedural deadlines set forth earlier will not be afforded a later opportunity to submit wage index data corrections or to dispute the MAC’s decision with respect to requested changes. Specifically, our policy is that hospitals that do not meet the procedural deadlines as previously set forth (requiring requests to MACs by the specified date in February and, where such requests are unsuccessful, requests for intervention by CMS by the specified date in April) will not be permitted to challenge later, before the PRRB, the failure of CMS to make a requested data revision. We refer readers also to the FY 2000 IPPS final rule (64 FR 41513) for a discussion of the parameters for appeals to the PRBB for wage index data corrections. As finalized in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38154 through 38156), this policy also applies to a hospital disputing corrections made by CMS that do not arise from a hospital’s request for a wage index data revision. That is, a hospital disputing an adjustment made by CMS that did not arise from a hospital’s request for a wage index data revision is required to request a correction by the first applicable deadline. Hospitals that do not meet the procedural deadlines set forth earlier will not be afforded a later opportunity to submit wage index data corrections or to dispute CMS’ decision with respect to changes.

We plan to post the final wage index data PUFs in late April 2021 on the CMS website at: https://www.cms.gov/medicare/medicare-finance-service-payment/acute-inpatient-pswage-index-files/fy-2022-wage-index-home-page. The April 2021 PUFs are made available solely for the limited purpose of identifying any potential errors made by CMS or the MAC in the entry of the final wage index data that resulted from the process for disputing revisions submitted to CMS by the MACs by March 19, 2021, and the process for disputing data corrections made by CMS that did not arise from a hospital’s request for wage data revisions as discussed earlier).

Specifically, neither the MAC nor CMS will approve the following types of requests:

- Requests for wage index data corrections that were submitted too late to be included in the data transmitted to CMS by the MACs on or before March 19, 2021.
- Requests for correction of errors that were not, but could have been, identified during the hospital’s review of the January 29, 2021 wage index PUFs.
- Requests to revisit factual determinations or policy interpretations made by the MAC or CMS during the wage index data correction process.

If, after reviewing the April 2021 final wage index data PUFs, a hospital believes that its wage or occupational mix data are incorrect due to a MAC or CMS error in the entry or tabulation of the final data, the hospital is given the opportunity to notify both its MAC and CMS regarding why the hospital believes an error exists and provide all supporting information, including relevant dates (for example, when it first became aware of the error). The hospital is required to send its request to CMS and to the MAC so that it is received no later than May 28, 2021. May 28, 2021 is also the deadline for hospitals to dispute data corrections made by CMS of which the hospital is notified on or
Again, we believe the wage index data correction process described earlier provides hospitals with sufficient opportunity to bring errors in their wage and occupational mix data to the MAC’s attention. Moreover, because hospitals had access to the final wage index data PUFs by late April 2021, they have an opportunity to detect any data entry or tabulation errors made by the MAC or CMS before the development and publication of the final FY 2022 wage index by August 2021, and the implementation of the FY 2022 wage index on October 1, 2021. Given these processes, the wage index implemented on October 1 should be accurate.

Nevertheless, in the event that errors are identified by hospitals and brought to our attention after May 28, 2021, we retain the right to make midyear changes to the wage index under very limited circumstances.

Specifically, in accordance with 42 CFR 412.64(k)(1) of our regulations, we make midyear corrections to the wage index for an area only if a hospital can show that: (1) The MAC or CMS made an error in tabulating its data; and (2) the requesting hospital could not have known about the error or did not have an opportunity to correct the error, before the beginning of the fiscal year. For purposes of this provision, “before the beginning of the fiscal year” means by the May deadline for making corrections to the wage data for the following fiscal year’s wage index (for example, May 28, 2021 for the FY 2022 wage index). This provision is not available to a hospital seeking to revise another hospital’s data that may be affecting the requesting hospital’s wage index for the labor market area. As indicated earlier, because CMS makes the wage index data available to hospitals on the CMS website prior to publishing the proposed and final IPPS rules, and the MACs notify hospitals directly of any wage index data changes after completing their desk reviews, we do not expect that midyear corrections will be necessary. However, under our current policy, if the correction of a data error changes the wage index value for an area, the revised wage index value will be effective prospectively from the date the correction is made.

In the FY 2006 IPPS final rule (70 FR 47385 through 47387 and 47485), we revised 42 CFR 412.64(k)(2) to specify that, effective on October 1, 2005, that is, beginning with the FY 2006 wage index, a change to the wage index can be made retroactive to the beginning of the Federal fiscal year only when CMS determines all of the following: (1) The MAC or CMS made an error in tabulating data used for the wage index calculation; (2) the hospital knew about the error and requested that the MAC and CMS correct the error using the established process and within the established schedule for requesting corrections to the wage index data, before the beginning of the fiscal year for the applicable IPPS update (that is, by the May 28, 2021 deadline for the FY 2022 wage index); and (3) CMS agreed before October 1 that the MAC or CMS made an error in tabulating the hospital’s wage index data and the wage index should be corrected.

In those circumstances where a hospital requested a correction to its wage index data before CMS calculated the final wage index (that is, by the May 28, 2021 deadline for the FY 2022 wage index), and CMS acknowledges that the error in the hospital’s wage index data was caused by CMS’ or the MAC’s mishandling of the data, we believe that the hospital should not be penalized by our delay in publishing or implementing the correction. As with our current policy, we indicated that the provision is not available to a hospital seeking to revise another hospital’s data. In addition, the provision cannot be used to correct prior years’ wage index data; it can only be used for the current Federal fiscal year. In situations where our policies would allow midyear corrections other than those specified in 42 CFR 412.64(k)(2)(ii), we continue to believe that it is appropriate to make prospective-only corrections to the wage index.

We note that, as with prospective changes to the wage index, the final retroactive correction will be made irrespective of whether the change increases or decreases a hospital’s payment rate. In addition, we note that the policy of retroactive adjustment will still apply in those instances where a final judicial decision reverses a CMS denial of a hospital’s wage index data revision request.

2. Process for Data Corrections by CMS After the January 29 Public Use File (PUF)

The process set forth with the wage index timeline discussed in section III.L.1. of the preamble of this proposed rule allows hospitals to request corrections to their wage index data within prescribed timeframes. In addition to hospitals’ opportunity to request corrections of wage index data errors or MACs’ mishandling of data, CMS has the authority under section 1886(d)(3)(E) of the Act to make corrections to hospital wage index and occupational mix data in order to ensure the accuracy of the wage index. As we explained in the FY 2016 IPPS/LTCIPPS final rule (80 FR 49490 through 49491) and the FY 2017 IPPS/LTCIPPS final rule (81 FR 56914), section 1886(d)(3)(E) of the Act requires the Secretary to adjust the proportion of hospitals’ costs attributable to wages and wage-related costs for area differences reflecting the relative hospital wage level in the geographic areas of the hospital compared to the national average hospital wage level. We believe that, under section 1886(d)(3)(E) of the Act, we have discretion to make corrections to hospitals’ data to help ensure that the costs attributable to wages and wage-related costs in fact accurately reflect the relative hospital wage level in the hospitals’ geographic areas.

We have established a multistep, 15-month process for the review and correction of the hospital wage data that is used to create the IPPS wage index for the upcoming fiscal year. Since the origin of the IPPS, the wage index has been subject to its own annual review process, first by the MACs, and then by CMS. As a standard practice, after each annual desk review, CMS reviews the results of the MACs’ desk reviews and focuses on items flagged during the desk review, requiring that, if necessary, hospitals provide additional documentation, adjustments, or corrections to the data. This ongoing communication with hospitals about their wage data may result in the discovery by CMS of additional items that were reported incorrectly or other data errors, even after the posting of the January 29 PUF, and throughout the remainder of the wage index development process. In addition, the fact that CMS analyzes the data from a regional and even national level, unlike the review performed by the MACs that review a limited subset of hospitals, can facilitate additional editing of the data that may not be readily apparent to the MACs. In these occasional instances, an error may be of sufficient magnitude that the wage index of an entire CBSA is affected. Accordingly, CMS uses its authority to ensure the wage index accurately reflects the relative hospital wage level in the geographic area of the hospital compared to the national average hospital wage level, by continuing to make corrections to hospital wage data upon discovering incorrect wage data, distinct from instances in which hospitals request data revisions.

We note that CMS corrects errors to hospital wage data as appropriate, regardless of the origin of the correction. That correction will raise or lower a hospital’s average hourly wage. For example, as discussed
in section III.C. of the preamble of the FY 2019 IPPS/LTCH PPS final rule (83 FR 41364), in situations where a hospital did not have documentable salaries, wages, and hours for housekeeping and dietary services, we imputed estimates, in accordance with policies established in the FY 2015 IPPS/LTCH PPS final rule (79 FR 49965 through 49967). Furthermore, if CMS discovers after conclusion of the desk review, for example, that a MAC inadvertently failed to incorporate positive adjustments resulting from a prior year’s wage index appeal of a hospital’s wage-related costs such as pension, CMS would correct that data error and the hospital’s average hourly wage would likely increase as a result.

While we maintain CMS’ authority to conduct additional review and make resulting corrections at any time during the wage index development process, in accordance with the policy finalized in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38154 through 38156) and as first implemented with the FY 2019 wage index (83 FR 41380), hospitals are able to request further review of a correction made by CMS that did not arise from a hospital’s request for a wage index data correction. Instances where CMS makes a correction to a hospital’s data after the January 29 PUF based on a different understanding than the hospital about certain reported costs, for example, could potentially be resolved using this process before the final wage index is calculated. We believe this process and the timeline for requesting review of such corrections (as described earlier and in the FY 2018 IPPS/LTCH PPS final rule) promote additional transparency to instances where CMS makes data corrections after the January 29 PUF, and provide opportunities for hospitals to request further review of CMS changes in time for the most accurate data to be reflected in the final wage index calculations. These additional appeals opportunities are described earlier and in the FY 2022 Wage Index Development Time Table, as well as in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38154 through 38156).

M. Proposed Labor-Related Share for the FY 2022 Wage Index

Section 1886(d)(3)(E) of the Act directs the Secretary to adjust the proportion of the national prospective payment system base payment rates that are attributable to wages and wage-related costs by a factor that reflects the relative differences in labor costs among geographic areas. It also directs the Secretary to estimate from time to time the proportion of hospital costs that are labor-related and to adjust the proportion (as estimated by the Secretary from time to time) of hospitals’ costs that are attributable to wages and wage-related costs of the DRG prospective payment rates. We refer to the portion of hospital costs attributable to wages and wage-related costs as the labor-related share. The labor-related share of the prospective payment rate is adjusted by an index of relative labor costs, which is referred to as the wage index.

Section 402(a) of Public Law 108–173 amended section 1886(d)(3)(E) of the Act to provide that the Secretary must employ 62 percent as the labor-related share unless this would result in lower payments to a hospital than would otherwise be made. However, this provision of Public Law 108–173 did not change the legal requirement that the Secretary estimate from time to time the proportion of hospitals’ costs that are attributable to wages and wage-related costs. Thus, hospitals receive payment based on either a 62-percent labor-related share, or the labor-related share estimated from time to time by the Secretary, depending on which labor-related share resulted in a higher payment.

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38158 through 38175), we rebased and revised the hospital market basket. We established a 2014-based IPPS hospital market basket to replace the FY 2010-based IPPS hospital market basket, effective October 1, 2017. Using the 2014-based IPPS market basket, we finalized a labor-related share of 68.3 percent for discharges occurring on or after October 1, 2017. In addition, in FY 2018, we implemented this revised and rebased labor-related share in a budget neutral manner (82 FR 38522). However, consistent with section 1886(d)(3)(E) of the Act, we did not take into account the additional payments that would be made as a result of hospitals with a wage index less than or equal to 1.0000 being paid using a labor-related share lower than the labor-related share of hospitals with a wage index greater than 1.0000. The labor-related share is used to determine the proportion of the national IPPS base payment rate to which the area wage index is applied. We include a cost category in the labor-related share if the costs are labor intensive and vary with the local labor market. As described in section IV. of the preamble of this proposed rule, beginning with FY 2022, we are proposing to include in the labor-related share the national average proportion of operating costs that are attributable to the following cost categories in the proposed 2018-based IPPS market basket: Wages and Salaries; Employee Benefits; Professional Fees; Labor-Related; Administrative and Facilities Support Services; Installation, Maintenance, and Repair Services; and All Other Labor-Related Services, as measured in the proposed 2018-based IPPS market basket. Therefore, for FY 2022, we are proposing to use a labor-related share of 67.6 percent for discharges occurring on or after October 1, 2021.

As discussed in section V.B. of the preamble of this proposed rule, prior to January 1, 2016, Puerto Rico hospitals were paid based on 75 percent of the national standardized amount and 25 percent of the Puerto Rico-specific standardized amount. As a result, we applied the Puerto Rico-specific labor-related share percentage to the Puerto Rico-specific standardized amount. Section 601 of the Consolidated Appropriations Act, 2016 (Pub. L. 114–113) amended section 1886(d)(9)(E) of the Act to specify that the payment calculation with respect to operating costs of inpatient hospital services of a subsection (d) Puerto Rico hospital for inpatient hospital discharges on or after January 1, 2016, shall use 100 percent of the national standardized amount. Because Puerto Rico hospitals are no longer paid with a Puerto Rico-specific standardized amount as of January 1, 2016, under section 1886(d)(9)(E) of the Act as amended by section 601 of the Consolidated Appropriations Act, 2016, there is no longer a need for us to calculate a Puerto Rico-specific labor-related share percentage and nonlabor-related share percentage to the Puerto Rico-specific standardized amount.

This proposed rule, we are proposing this rebased and revised labor-related share in a budget neutral manner. However, consistent with section 1886(d)(3)(E) of the Act, we would not take into account the additional payments that would be made as a result of hospitals with a wage index less than or equal to 1.0000 being paid using a labor-related share lower than the labor-related share of hospitals with a wage index greater than 1.0000.
to the Puerto Rico-specific standardized amount. Hospitals in Puerto Rico are now paid 100 percent of the national standardized amount and, therefore, are subject to the national labor-related share and nonlabor-related share percentages that are applied to the national standardized amount. Accordingly, for FY 2022, we are not proposing a Puerto Rico-specific labor-related share percentage or a nonlabor-related share percentage.

Tables 1A and 1B, which are published in section VI of the Addendum to this FY 2022 IPPS/LTCH PPS proposed rule and available via the internet on the CMS website, reflect the proposed national labor-related share, which is also applicable to Puerto Rico hospitals. For FY 2022, for all IPPS hospitals (including Puerto Rico hospitals) whose wage indexes are less than or equal to 1.000, we are proposing to apply the wage index to the labor-related share of 62 percent of the national standardized amount. For all IPPS hospitals (including Puerto Rico hospitals) whose wage indexes are greater than 1.000, for FY 2022, we are proposing to apply the wage index to the proposed labor-related share of 67.6 percent of the national standardized amount.

IV. Proposed Rebasing and Revising of the Hospital Market Baskets for Acute Care Hospitals

A. Background

Effective for cost reporting periods beginning on or after July 1, 1979, we developed and adopted a hospital input price index (that is, the hospital market basket for operating costs). Although “market basket” technically describes the mix of goods and services used in providing hospital care, this term is also commonly used to denote the input price index (that is, cost category weights and price proxies combined) derived from that market basket. Accordingly, the term “market basket” as used in this document refers to the hospital input price index.

The percentage change in the market basket reflects the average change in the price of goods and services hospitals purchase in order to provide inpatient care. We first used the market basket to adjust hospital cost limits by an amount that reflected the average increase in the prices of the goods and services used to provide hospital inpatient care. This approach linked the increase in the cost limits to the efficient utilization of resources.

Since the inception of the IPPS, the projected change in the hospital market basket has been the integral component of the update factor by which the prospective payment rates are updated every year. An explanation of the hospital market basket used to develop the prospective payment rates was published in the Federal Register on September 1, 1983 (48 FR 39764). We also refer readers to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38158 through 38175) in which we discussed the most recent previous rebasing of the hospital input price index.

The hospital market basket is a fixed-weight, Laspeyres-type price index. A Laspeyres-type price index measures the change in price, over time, of the same mix of goods and services purchased in the base period. Any changes in the quantity or mix of goods and services (that is, intensity) purchased over time are not measured.

The index itself is constructed in three steps. First, a base period is selected (in this proposed rule, we are proposing to use 2018 as the base period) and total base period expenditures are factored for a set of mutually exclusive and exhaustive spending categories, and the proportion of total costs that each category represents are calculated. These proportions are called “cost weights” or “expenditure weights.” Second, each expenditure category is matched to an appropriate price or wage variable, referred to as a “price proxy.” In almost every instance, these price proxies are derived from publicly available statistical series that are published on a consistent schedule (preferably at least on a quarterly basis). Finally, the expenditure weight for each cost category is multiplied by the level of its respective price proxy. The sum of these products (that is, the expenditure weights multiplied by their price index levels) for all cost categories yields the composite index level of the market basket in a given period. Repeating this step for other periods produces a series of market basket levels over time. Dividing an index level for a given period by an index level for an earlier period produces a rate of growth in the input price index over that timeframe.

As previously noted, the market basket is described as a fixed-weight index because it represents the change in price over time of a constant mix (quantity and intensity) of goods and services needed to provide hospital services. The effects on total expenditures resulting from changes in the mix of goods and services purchased subsequent to the base period are not measured. For example, a hospital hiring more nurses to accommodate the needs of patients would increase the volume of goods and services purchased by the hospital, but would not be factored into the price change measured by a fixed-weight hospital market basket.

The terms “rebasing” and “revising,” while often used interchangeably, actually denote different activities. “Rebasings” means moving the base year for the structure of costs of an input price index (for example, in this proposed rule, we are proposing to shift the base year cost structure for the IPPS hospital index from 2014 to 2018). “Revising” means changing data sources or price proxies used in the input price index. As published in the FY 2006 IPPS final rule (70 FR 47387), in accordance with section 404 of Public Law 108–173, CMS determined a new frequency for rebasing the hospital market basket. We established a rebasing frequency of every 4 years and, therefore, for the FY 2022 IPPS update, we are proposing to rebase and revise the IPPS market basket from 2014 to 2018. We are inviting public comments on our proposed methodology.

1. Development of Cost Categories and Weights

a. Use of Medicare Cost Categories and Weights

The major source of expenditure data for developing the proposed rebased and revised hospital market basket cost weights is the 2018 Medicare cost reports. These 2018 Medicare cost reports are for cost reporting periods beginning on and after October 1, 2017.
and before October 1, 2018. We are proposing to use 2018 as the base year because we believe that the 2018 Medicare cost reports represent the most recent, complete set of Medicare cost report data available to develop cost weights for IPPS hospitals at the time of rulemaking. We believe it is important to regularly rebase and revise the IPPS market basket to reflect more recent data. Historically, the cost weights change minimally from year to year as they represent percent of total operating costs rather than cost levels; however, given the COVID–19 public health emergency we will continue to monitor the upcoming Medicare cost report data to see if a more frequent rebasing schedule is necessary than our current schedule of every 4 years. As was done in previous rebasings, these cost reports are from IPPS hospitals only (hospitals excluded from the IPPS and CAHs are not included) and are based on IPPS Medicare-allowable operating costs. IPPS Medicare-allowable operating costs are costs that are eligible to be paid under the IPPS. For example, the IPPS market basket excludes home health agencies (HHA) costs as these costs would be paid under the HHA PPS and, therefore, these costs are not IPPS Medicare-allowable costs.

The current set of instructions for the Medicare cost reports for hospitals (Form 2552–10, OMB Control Number 0938–0050) can be found in Chapter 40 at the following website (https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Paper-Based-Manuals/CMS021455, accessed February 17, 2021). As described in these instructions, effective for cost reporting periods beginning on or after October 1, 2015, Worksheet S–3, Part II was revised to add lines 14.01, 14.02, 25.50, 25.51, 25.52, and 25.53, to enhance the wage index data collection. This modification was made for Transmittal 10 and is specifically highlighted in the instructions, which can be found at the following website: (https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/Downloa61602.pdf, accessed February 17, 2021). Therefore, as noted later in this section, for the 2018-based IPPS market basket, we are proposing to use these more detailed lines for the development of the market basket cost categories. These detailed lines were not available at the time we finalized the 2014-based IPPS market basket.

We are proposing to derive costs for eight major expenditures or cost categories for the 2018-based IPPS market basket from the CMS Medicare cost reports (Form 2552–10, OMB Control Number 0938–0050): Wages and Salaries, Employee Benefits, Contract Labor, Pharmaceuticals, Professional Liability Insurance (Malpractice), Blood and Blood Products, Home Office/Related Organization Contract Labor, and a residual “All Other” category. The residual “All Other” category reflects all remaining costs that are not captured in the other seven cost categories. These are the same major cost categories from the Medicare cost reports that were derived for the 2014-based IPPS market basket. In this rule, we describe the detailed methodology for obtaining costs for each of the seven cost categories directly determined from the Medicare cost reports.

In order to create a market basket that is representative of IPPS hospitals serving Medicare patients and to help ensure accurate major cost weights (which is the percent of total Medicare-allowable operating costs, as defined in this rule), we propose to apply edits to remove reporting errors and outliers. Specifically, the IPPS Medicare cost reports used to calculate the market basket cost weights exclude any providers that reported costs less than or equal to zero for the following categories: Total Medicare inpatient costs (Worksheet D, Part I, column 1, line 49); Medicare PPS payments (Worksheet E, Part A, column 1, line 59); Total salary costs (Worksheet S–3, Part II, column 2, line 1). We also limited our sample to providers that had a Medicare cost reporting period that was between 10 and 14 months. The final sample used included roughly 2,200 Medicare cost reports (about 94 percent of the universe of IPPS Medicare cost reports for 2018). The sample of providers is representative of the national universe of providers by ownership-type (proprietary, nonprofit, and government) and by urban/rural status.

First, we are proposing to calculate total Medicare-allowable operating costs for each hospital. We are proposing that total Medicare-allowable operating costs are equal to noncapital costs (Worksheet B, Part I, column 26 less Worksheet B, Part II, column 26) that are attributable to the Medicare-allowable cost centers of the hospital. We are proposing that Medicare-allowable cost centers are lines 30 through 35, 50 through 60, 62 through 76, 90, 91, 92.01, 93, 96 and 97. This is the same general methodology that was used for the 2014-based IPPS market basket. However, we note that for the development of the 2018-based IPPS market basket, we conducted a detailed review of the cost centers and are proposing to include lines 52, 96, and 97 when deriving total Medicare-allowable operating costs as these reflect Medicare-allowable services that are reimbursed under the IPPS.

(1) Wages and Salaries Costs

To derive wages and salaries costs for the Medicare-allowable cost centers, we are proposing to first calculate total unadjusted wages and salaries costs as reported on Worksheet S–3, Part II, column 4, line 1. We are then proposing to remove the wages and salaries attributable to non-Medicare-allowable cost centers (that is, excluded areas) as well as a portion of overhead wages and salaries attributable to these excluded areas. This is the same general methodology that was used to derive wages and salaries costs for the 2014-based IPPS market basket. However, we note that we are proposing minor changes to the Medicare cost report lines that are used to derive excluded area wages and salaries as well as overhead wages and salaries attributable to these areas as described in this rule as we believe these represent a technical improvement to the Medicare cost report lines used for the 2014-based IPPS market basket. The description of the detailed methodology used for the 2014-based IPPS market basket was provided in the FY 2018 IPPS/LTCH final rule (82 FR 38159).

Specifically, we are proposing to calculate excluded area wages and salaries as equal to the sum of Worksheet S–3, Part II, column 4, lines 3, 4, .01, 5, 6, 7, 7.01, 8, 9, and 10 less Worksheet A, column 1, lines 20 and 23. Overhead wages and salaries are attributable to the entire IPPS facility. Therefore, we are proposing to only include the proportion attributable to the Medicare-allowable cost centers. Specifically, we are proposing to estimate the proportion of overhead wages and salaries that are not attributable to Medicare-allowable costs centers (that is, excluded areas) by first calculating the ratio of total Medicare-allowable operating costs as previously defined to total facility operating costs (Worksheet B, Part I, column 26, line 202 less Worksheet B, Part I, column 0, lines 1 and 2). We then are proposing to multiply this ratio by total overhead wages and salaries (Worksheet S–3, Part II, column 4, lines 26, 27, 29 through 32, 34, and 36 through 43).

Therefore, the proposed wages and salaries costs are equal to total wages and salary costs less (a) Excluded area wages and salaries costs and (b) overhead wages and salaries costs attributable to the excluded areas.
(2) Employee Benefits Costs
We are proposing to derive employee benefits costs using a similar methodology as the wages and salaries costs; that is, reflecting employee benefits costs attributable to the Medicare-allowable cost centers. First, we calculate total unadjusted employee benefits costs as the sum of Worksheet S–3, Part II, column 4, lines 17, 18, 20, 22, and 25.52. The 2014-based IPPS market basket used Worksheet S–3, Part II, column 4, lines 17, 18, 20 and 22 to derive the costs for this category. As described previously, line 25.52 reflects a newly added line to Worksheet S–3, Part II since the development of the 2014-based IPPS market basket.

We then exclude those employee benefits attributable to the overhead wages and salaries for the non-Medicare-allowable cost centers (that is, the excluded areas). Employee benefits attributable to the non-Medicare-allowable cost centers are derived by multiplying the ratio of total employee benefits (equal to the sum of Worksheet S–3, Part II, column 4, lines 17, 18, 19, 20, 21, 22, 22.01, 23, 24, 25, 25.50, 25.51, 25.52, and 25.53) to total wages and salaries (Worksheet S–3, Part II, column 4, lines 1) by excluded overhead wages and salaries (as previously described in section IV.B.1.a.1), of the preamble of this proposed rule for wages and salaries costs). A similar methodology was used in the 2014-based IPPS market basket.

(3) Contract Labor Costs
Contract labor costs are primarily associated with direct patient care services. Contract labor costs for services such as accounting, billing, and legal are estimated using other government data sources as described in this rule. We are proposing to derive contract labor costs for the 2018-based IPPS market basket as the sum of Worksheet S–3, Part II, column 4, lines 11, 13, and 15. A similar methodology was used in the 2014-based IPPS market basket.

(4) Professional Liability Insurance Costs
We are proposing that professional liability insurance (PLI) costs (often referred to as malpractice costs) be equal to premiums, paid losses, and self-insurance costs reported on Worksheet S–2, Part I, columns 1 through 3, line 118.01. A similar methodology was used for the 2014-based IPPS market basket.

(5) Pharmaceuticals Costs
We are proposing to calculate pharmaceuticals costs as total costs reported for the Pharmacy cost center (Worksheet B, Part I, column 0, line 15) and Drugs Charged to Patients cost center (Worksheet B, Part I, column 0, line 73) less wages and salaries attributable to these two cost centers (Worksheet S–3, Part II, column 4, line 40 and Worksheet A, column 1, line 73) less estimated employee benefits attributable to these two cost centers. We are proposing to estimate the employee benefits costs by multiplying the ratio of total employee benefits (equal to the sum of Worksheet S–3, Part II, column 4, lines 17, 18, 19, 20, 21, 22, 22.01, 23, 24, 25, 25.50, 25.51, 25.52, and 25.53) to total wages and salaries (Worksheet S–3, Part II, column 4, line 1) by total wages and salaries costs for the Pharmacy and Drugs Charged to Patients cost centers (equal to the sum of Worksheet S–3, Part II, column 4, line 40 and Worksheet A, column 1, line 73).

The same general methodology was used for the 2014-based IPPS market basket. However, we note that for the 2014-based IPPS market basket, we are proposing to use Worksheet B, Part I, column 0 as this would reflect reclassifications and adjustments (which are made on columns subsequent to Worksheet A columns 1 and 2).

(6) Blood and Blood Products Costs
We are proposing to calculate blood and blood products costs as total costs reported for the Whole Blood & Packed Red Blood Cells cost center (Worksheet B, Part I, column 0, line 62) and the Blood Storing, Processing, & Transfusing cost center (Worksheet B, Part I, column 0, Line 63) less wages and salaries attributable to these two cost centers (Worksheet A, column 1, lines 62 and 63) less estimated employee benefits attributable to these two cost centers. We estimate these employee benefits costs by multiplying the ratio of total employee benefits (equal to the sum of Worksheet S–3, Part II, column 4, lines 17, 18, 19, 20, 21, 22, 22.01, 23, 24, 25, 25.50, 25.51, 25.52, and 25.53) to total wages and salaries (Worksheet S–3, Part II, column 4, line 1) by total wages and salaries for the Whole Blood & Packed Red Blood Cells and Blood Storing, Processing, & Transfusing cost centers (equal to the sum of Worksheet A, Column 1, lines 62 and 63). The same general methodology was used for the 2014-based IPPS market basket. However, we note that for the 2014-based IPPS market basket, for calculating the total nonsalary costs we used Worksheet A, column 2 for lines 62 and 63 instead of our proposed method of using Worksheet B, Part I, column 0, lines 62 and 63, less salary costs. Similar to our proposed method for Pharmaceuticals costs, we are proposing to use Worksheet B, Part I, column 0 as this would reflect reclassifications and adjustments (which are made on columns subsequent to Worksheet A columns 1 and 2).

(7) Home Office Contract Labor/Related Organization Costs
We are proposing to determine home office/related organization contract labor costs using data reported on Worksheet S–3, Part II, column 4, lines 14.01, 14.02, 25.50, and 25.51. Home office/related organization contract labor costs in the 2014-based IPPS market basket were calculated using a similar method except we used data reported on Worksheet S–3, Part II, column 4, line 14. As described previously, effective for cost reporting periods beginning on or after October 1, 2015 (Transmittal 10), Worksheet S–3, Part II was revised to add lines 14.01, 14.02, 25.50, 25.51, 25.52, and 25.53, to enhance the wage index data collection. Therefore, for the 2018-based IPPS market basket, we are proposing to use these more detailed lines; however, the expenses captured on these lines would be similar to the expenses originally reported on line 14, prior to the break out of the expenses on these new more detailed lines.

In addition, for the 2014-based IPPS market basket, we then multiplied the home office/related organization contract labor costs by the ratio of total Medicare-allowable operating costs to total operating costs. However, for the 2018-based IPPS market basket, we are no longer proposing to apply this adjustment since the Medicare cost report instructions effective for Transmittal 10 now state that the costs reported on these lines should reflect costs associated with Medicare-allowable cost centers. Therefore, we no longer believe this adjustment is necessary.

b. Final Major Cost Category Computation
After we derived costs for the seven major cost categories for each provider using the Medicare cost report data as previously described, we are proposing to address data outliers using the following steps. First, we divide the costs for each of the seven categories (calculated as previously described in this section) by total Medicare-allowable operating costs for the provider.
For each of the major cost weights except the Home Office/Related Organization Contract Labor cost weight, we are proposing to trim the data to remove outliers (a standard statistical process) by: (1) Requiring that major expenses (such as Wages and Salaries costs) and total Medicare-allowable operating costs be greater than zero; and (2) excluding the top and bottom five percent of the major cost weight (for example, Wages and Salaries costs as a percent of total Medicare-allowable operating costs). We note that missing values are assumed to be zero consistent with the methodology for how missing values were treated in the 2014-based IPPS market basket. After the outliers have been removed, we sum the costs for each category across all remaining providers. We then divide this by the sum of total Medicare-allowable operating costs across all remaining providers to obtain a cost weight for the proposed 2018-based IPPS market basket for the given category.

For the Home Office/Related Organization Contract Labor cost weight, we are proposing to apply a trim that excludes those reporters above the 99th percentile. This allows all providers’ Medicare-allowable costs to be included, even if their home office/related organization contract labor costs were reported to be zero. The Medicare cost report data (Worksheet S–2, Part I, line 140) indicate that not all hospitals have a home office. IPPS hospitals without a home office would report administrative costs that might typically be associated with a home office in the Wages and Salaries and Employee Benefits cost weights, or in the residual “All Other” cost weight if they purchased these types of services from external contractors. We believe the trimming methodology that excludes those who report a Home Office/Related Organization Contract Labor cost weight above the 99th percentile is appropriate as it removes extreme outliers while allowing providers with zero home office/related organization contract labor costs to be included in the Home Office/Related Organization Contract Labor cost weight calculation. Next, similar to the other cost weights, after the outliers have been removed, we sum the costs across all remaining providers. We then divide this by the sum of total Medicare-allowable operating costs across all remaining providers to obtain a cost weight for the proposed 2018-based IPPS market basket.

### TABLE IV-01.—MAJOR COST CATEGORIES AS DERIVED FROM THE MEDICARE COST REPORTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wages and Salaries</td>
<td>42.1</td>
<td>39.7</td>
</tr>
<tr>
<td>Employee Benefits</td>
<td>12.0</td>
<td>11.3</td>
</tr>
<tr>
<td>Contract Labor</td>
<td>1.8</td>
<td>2.0</td>
</tr>
<tr>
<td>Professional Liability Insurance (Malpractice)</td>
<td>1.2</td>
<td>1.0</td>
</tr>
<tr>
<td>Pharmaceuticals</td>
<td>5.9</td>
<td>7.1</td>
</tr>
<tr>
<td>Blood and Blood Products</td>
<td>0.8</td>
<td>0.6</td>
</tr>
<tr>
<td>Home Office/Related Organization Contract Labor</td>
<td>4.2</td>
<td>5.9</td>
</tr>
<tr>
<td>“All Other” Residual</td>
<td>32.0</td>
<td>32.4</td>
</tr>
</tbody>
</table>

From 2014 to 2018, the Wages and Salaries and Employee Benefits cost weights as calculated directly from the Medicare cost reports decreased by approximately 2.4 percentage points and 0.7 percentage point, respectively, while the Contract Labor cost weight increased slightly by 0.2 percentage point.

As we did for the 2014-based IPPS market basket (82 FR 38162), we are proposing to allocate contract labor costs to the Wages and Salaries and Employee Benefits cost weights based on their relative proportions for employed labor under the assumption that contract labor costs are comprised of both wages and salaries and employee benefits. The contract labor allocation proportion for wages and salaries is equal to the Wages and Salaries cost weight as a percent of the sum of the Wages and Salaries cost weight and the Employee Benefits cost weight. Using the 2018 Medicare cost report data, this percentage is 78 percent. Therefore, we are proposing to allocate approximately 78 percent of the Contract Labor cost weight to the Wages and Salaries cost weight and 22 percent to the Employee Benefits cost weight.

The 2014-based IPPS market basket also allocated 78 percent of the Contract Labor cost weight to the Wages and Salaries cost weight.

Table IV–02 shows the Wages and Salaries and Employee Benefits cost weights after contract labor allocation for the 2014-based IPPS market basket and the proposed 2018-based IPPS market basket. In aggregate, the
TABLE IV-02.—WAGES AND SALARIES AND EMPLOYEE BENEFITS COST WEIGHTS AFTER CONTRACT LABOR ALLOCATION

<table>
<thead>
<tr>
<th>Major Cost Categories</th>
<th>2014-Based IPPS Market Basket</th>
<th>Proposed 2018-Based IPPS Market Basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Compensation</td>
<td>55.8</td>
<td>53.0</td>
</tr>
<tr>
<td>Wages and Salaries</td>
<td>43.4</td>
<td>41.2</td>
</tr>
<tr>
<td>Employee Benefits</td>
<td>12.4</td>
<td>11.7</td>
</tr>
</tbody>
</table>

*Totals may not sum due to rounding

Compensation cost weight (calculated using more detailed decimal places) decreased from 55.8 percent to 53.0 percent, or 2.8 percentage points.

c. Derivation of the Detailed Cost Weights

To further divide the “All Other” residual cost weight estimated from the 2018 Medicare cost report data into more detailed cost categories, we are proposing to use the 2012 Benchmark I–O “Use Tables/Before Redefinitions/ Purchaser Value” for NAICS 622000, Hospitals, published by the BEA. These data are publicly available at the following website: [http://www.bea.gov/industry/io_annual.htm](http://www.bea.gov/industry/io_annual.htm). The BEA Benchmark I–O data are generally scheduled for publication every 5 years on a lagged basis, with the most recent data available for 2012. The 2012 Benchmark I–O data are derived from the 2012 Economic Census and are the building blocks for BEA’s economic accounts. Therefore, they represent the most comprehensive and complete set of data on the economic processes or mechanisms by which output is produced and distributed. The BEA also produces Annual I–O estimates. However, while based on a similar methodology, these estimates reflect less comprehensive and less detailed data sources and are subject to revision when benchmark data become available.

Instead of using the less detailed Annual I–O data, we are proposing to inflate the detailed 2012 Benchmark I–O data forward to 2018 by applying the annual price changes from the respective price proxies to the appropriate market basket cost categories that are obtained from the 2012 Benchmark I–O data. In our calculations for this proposed rule, we repeated this practice for each year. We then calculated the cost shares that each cost category represents of the 2012 data inflated to 2018. These resulting 2018 cost shares were applied to the “All Other” residual cost weight to obtain the detailed cost weights for the proposed 2018-based IPPS market basket. For example, the cost for Food: Direct Purchases represents 4.8 percent of the sum of the “All Other” 2012 Benchmark I–O Hospital Expenditures inflated to 2018. Therefore, the Food: Direct Purchases cost weight represents 4.8 percent of the proposed 2018-based IPPS market basket’s “All Other” cost category (32.4 percent), yielding a Food: Direct Purchases cost weight of 1.6 percent in the proposed 2018-based IPPS market basket (0.048 × 32.4 percent = 1.6 percent). For the 2014-based IPPS market basket (82 FR 38162), we used the same methodology utilizing the 2007 Benchmark I–O data (aged to 2014).

Using this methodology, we are proposing to derive 17 detailed cost categories from the proposed 2018-based IPPS market basket residual cost weight (32.4 percent). These categories are: (1) Fuel: Oil and Gas; (2) Electricity and Other Non-Fuel Utilities; (3) Food: Direct Purchases; (4) Food: Contract Services; (5) Chemicals; (6) Medical Instruments; (7) Rubber and Plastics; (8) Paper and Printing Products; (9) Miscellaneous Products; (10) Professional Fees: Labor-Related; (11) Administrative and Facilities Support Services; (12) Installation, Maintenance, and Repair Services; (13) All Other: Labor-Related Services; (14) Professional Fees: Nonlabor-Related; (15) Financial Services; (16) Telephone Services; and (17) All Other: Nonlabor-Related Services.

The 2014-based IPPS market basket had a separate cost category for Water and Sewerage. Due to the size of the estimated cost weight (approximately 0.1 percent), we are proposing that these costs be included in the Electricity and Other Non-Fuel Utilities cost category.

2. Selection of Proposed Price Proxies

After computing the proposed 2018 cost weights for the IPPS market basket, it was necessary to select appropriate wage and price proxies to reflect the rate of price change for each expenditure category. With the exception of the proxy for professional liability insurance (PLI), all the proxies we are proposing are based on Bureau of Labor Statistics (BLS) data and are grouped into one of the following BLS categories:

- **Producer Price Indexes—Producer Price Indexes (PPIs)** measure the average change over time in the selling prices received by domestic producers for their output. The prices included in the PPI are from the first commercial transaction for many products and some services ([https://www.bls.gov/ppi/](https://www.bls.gov/ppi/)).

- **Consumer Price Indexes—Consumer Price Indexes (CPIs)** measure the average change over time in the prices paid by urban consumers for a market basket of consumer goods and services ([https://www.bls.gov/cpi/](https://www.bls.gov/cpi/)). CPIs are only used when the purchases are similar to those of retail consumers rather than purchases at the producer level, or if no appropriate PPIs are available.

- **Employment Cost Indexes—Employment Cost Indexes (ECIs)** measure the rate of change in employee wage rates and employer costs for employee benefits per hour worked. These indexes are fixed-weight indexes and strictly measure the change in wage rates and employee benefits per hour. ECIs are superior to Average Hourly Earnings (AHE) as price proxies for input price indexes because they are not affected by shifts in occupation or industry mix, and because they measure pure price change and are available by both occupational group and by industry. The industry ECIs are based on the NAICS and the occupational ECIs are based on the Standard Occupational Classification System (SOC).

We evaluated the price proxies using the criteria of reliability, timeliness, availability, and relevance:

- **Reliability.** Reliability indicates that the index is based on valid statistical information.
methods and has low sampling variability. Widely accepted statistical methods ensure that the data were collected and aggregated in a way that can be replicated. Low sampling variability is desirable because it indicates that the sample reflects the typical members of the population. (Sampling variability is variation that occurs by chance because only a sample was surveyed rather than the entire population.)

- **Timeliness.** Timeliness implies that the proxy is published regularly, preferably at least once a quarter. The market basket levels are updated quarterly, and therefore, it is important for the underlying price proxies to be up-to-date, reflecting the most recent data available. We believe that using proxies that are published regularly (at least quarterly, whenever possible) helps to ensure that we are using the most recent data available to update the market basket. We strive to use publications that are disseminated frequently, because we believe that this is an optimal way to stay abreast of the most current data available.

- **Availability.** Availability means that the proxy is publicly available. We prefer that our proxies are publicly available because this will help ensure that our market basket updates are as transparent to the public as possible. In addition, this enables the public to be able to obtain the price proxy data on a regular basis.

- **Relevance.** Relevance means that the proxy is applicable and representative of the cost category weight to which it is applied.

We believe the proposed PPIs, CPIs, and ECIs selected meet these criteria. Therefore, we believe that they continue to be the best measure of price changes for the cost categories to which they would be applied.

In this rule, we present a detailed explanation of the price proxies that we are proposing for each cost category weight. We note that many of the proxies that we are proposing to use for the proposed 2018-based IPPS market basket are the same as those used for the 2014-based IPPS market basket.

1. **Wages and Salaries**

   We are proposing to use the ECI for Wages and Salaries for All Civilian Workers in Hospitals to measure the price growth of this cost category. This ECI is calculated using the ECI for Total Compensation for All Civilian Workers in Hospitals (BLS series code CIU101622000000000) and the relative importance of wages and salaries within total compensation. This is the same price proxy used in the 2014-based IPPS market basket.

2. **Employee Benefits**

   We are proposing to use the ECI for Total Benefits for All Civilian Workers in Hospitals to measure the price growth of this cost category. This ECI is calculated using the ECI for Total Compensation for All Civilian Workers in Hospitals (BLS series code CIU101622000000000) and the relative importance of wages and salaries within total compensation. This is the same price proxy used in the 2014-based IPPS market basket.

3. **Fuel: Oil and Gas**

   Similar to the 2014-based IPPS market basket, we are proposing to use a blend of the PPI Industry for Petroleum Refineries and the PPI Commodity for Natural Gas. Our analysis of the Bureau of Economic Analysis’ 2012 Benchmark I–O data (use table before redefinitions, purchaser’s value for NAICS 622000 [Hospitals]), shows that approximately 96 percent of hospital Fuel: Oil, and Gas expenses are for Petroleum Refineries (NAICS 324110) and Natural Gas (NAICS 221200) expenses, with Petroleum Refineries expenses accounting for approximately 90 percent and Natural Gas expenses accounting for approximately 10 percent of this sum. We are proposing to create blended index of these expenses based on each NAICS’ expenses as share of their sum. Therefore, we are proposing to use a blend of 90 percent of the PPI Industry for Petroleum Refineries (BLS series code PCU324110324110) and 10 percent of the PPI Commodity Index for Natural Gas (BLS series code WPU0531) as the price proxy for this cost category. The 2014-based IPPS market basket used the 70/30 blend of these price proxies, reflecting the 2007 I–O data (82 FR 38163). We believe that these two price proxies continue to be the most technically appropriate indices available to measure the price growth of the Fuel: Oil, and Gas cost category in the proposed 2018-based IPPS market basket.

4. **Electricity and Other Non-Fuel Utilities**

   We are proposing to use the PPI Commodity for Commercial Electric Power (BLS series code WPU0542) to measure the price growth of this cost category, as Electricity costs account for 93 percent of these expenses. This is the same price proxy used for the Electricity cost category in the 2014-based IPPS market basket. As previously noted, we are proposing to include Water and Sewerage costs within the Electricity and Other Non-Fuel Utilities cost category, and to no longer use the CPI for Water and Sewerage Maintenance as we did for the 2014-based IPPS market basket, due to the small size of this estimated cost weight (approximately 0.1 percent).

5. **Professional Liability Insurance**

   We are proposing to proxy price changes in hospital professional liability insurance premiums (PLI) using percentage changes as estimated by the CMS Hospital Professional Liability Index. To generate these estimates, we collect commercial insurance medical liability premiums for a fixed level of coverage while holding nonprice factors constant (such as a change in the level of coverage). This is the same price proxy used in the 2014-based IPPS market basket.

6. **Pharmaceuticals**

   We are proposing to use the PPI Commodity for Pharmaceuticals for Human Use, Prescription (BLS series code WPSU070003) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

7. **Food: Direct Purchases**

   We are proposing to use the PPI Commodity for Processed Foods and Feeds (BLS series code WPU02) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

8. **Food: Contract Services**

   We are proposing to use the CPI for Food Away From Home (All Urban Consumers) (BLS series code CUUR0000SFV) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

9. **Chemicals**

   Similar to the 2014-based IPPS market basket, we are proposing to use a four-part blended PPI as the proxy for the chemicals cost category in the proposed 2018-based IPPS market basket. The proposed blend is composed of the PPI Industry for Industrial Gas Manufacturing, Primary Products (BLS series code PCU325120325120P), the PPI Industry for Other Basic Inorganic Chemical Manufacturing (BLS series code PCU32518–32518–), the PPI Industry for Other Basic Organic Chemical Manufacturing (BLS series code PCU32519–32519–), and the PPI Industry for Other Miscellaneous Chemical Product Manufacturing (BLS series code PCU325998325998). We note that the four part blended PPI used in the 2014-based IPPS market basket is composed of the PPI Industry for Industrial Gas Manufacturing (BLS series code PCU325120325120P).
PPI Industry for Other Basic Inorganic Chemical Manufacturing (BLS series code PCU32518–32519–), the PPI Industry for Other Basic Organic Chemical Manufacturing (BLS series code PCU32519–32519–), and the PPI Industry for Soap and Cleaning Compound Manufacturing (BLS series code PCU32561–32561–). For the 2018-based IPPS market basket, we are proposing to derive the weights for the PPIs using the 2012 Benchmark I–O data. The 2014-based IPPS market basket used the 2007 Benchmark I–O data to derive the weights for the four PPIs (82 FR 38164). We note that in the 2012 I–O data, the share of total chemicals expenses that the Soap and Cleaning Compound Manufacturing (NAICS 325610) represents decreased relative to the 2007 I–O data (from 5 percent to 2 percent), while the share of the total chemicals expenses that the All Other Chemical Product and Preparation manufacturing (NAICS 3259A0) categories represents increased (from 5 percent to 7 percent). As a result, we are proposing to remove the PPI Industry for Other Basic Inorganic Chemical Manufacturing from the proposed blend for the proposed 2018-based IPPS market basket and replace it with the PPI Industry for Other Miscellaneous Chemical Product Manufacturing (BLS series code PCU32598325998).

Table IV–03 shows the proposed weights for each of the four PPIs used to create the blended index compared to those used for the 2014-based IPPS market basket.

### Table IV–03.—BLENDED CHEMICAL PPI WEIGHTS

<table>
<thead>
<tr>
<th>NAICS</th>
<th>Name</th>
<th>2014-Based IPPS Weights</th>
<th>Proposed 2018-Based IPPS Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>325120</td>
<td>PPI Industry for Industrial Gas Manufacturing</td>
<td>32%</td>
<td>19%</td>
</tr>
<tr>
<td>325180</td>
<td>PPI Industry for Other Basic Inorganic Chemical Manufacturing</td>
<td>17%</td>
<td>13%</td>
</tr>
<tr>
<td>325190</td>
<td>PPI Industry for Other Basic Organic Chemical Manufacturing</td>
<td>45%</td>
<td>60%</td>
</tr>
<tr>
<td>325610</td>
<td>PPI Industry for Soap and Cleaning Compound Manufacturing</td>
<td>6%</td>
<td>n/a</td>
</tr>
<tr>
<td>325998</td>
<td>PPI Industry for Other Miscellaneous Chemical Product</td>
<td>n/a</td>
<td>8%</td>
</tr>
</tbody>
</table>

(10) Blood and Blood Products

We are proposing to use the PPI Industry for Blood and Organ Banks (BLS series code PCU621991621991) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

(11) Medical Instruments

We are proposing to use a blended price proxy for the Medical Instruments category, as shown in Table IV–04. The 2012 Benchmark I–O data shows the majority of medical instruments and supply costs are for NAICS 339112—Surgical and medical instrument manufacturing costs (approximately 56 percent) and NAICS 339113—Surgical appliance and supplies manufacturing costs (approximately 43 percent). Therefore, we are proposing to use a blend of these two price proxies. To proxy the price changes associated with NAICS 339112, we propose using the PPI—Commodity—Surgical appliances and supplies (BLS series code WPU1562). This is the same price proxy we used in the 2014-based IPPS market basket. To proxy the price changes associated with NAICS 339113, we are proposing to use a 50/50 blend of the PPI—Commodity—Medical and surgical appliances and supplies (BLS series code WPU1563) and the PPI—Commodity—Miscellaneous products—Personal safety equipment and clothing (BLS series code WPU1571). We are proposing to include the latter price proxy as it would reflect personal protective equipment including but not limited to face shields and protective clothing. The 2012 Benchmark I–O data does not provide specific expenses for these products; however, we recognize that this category reflects costs faced by IPPS hospitals.

### Table IV–04.—BLENDED MEDICAL INSTRUMENTS PPI WEIGHTS

<table>
<thead>
<tr>
<th>NAICS</th>
<th>Name</th>
<th>2014-Based IPPS Weights</th>
<th>Proposed 2018-Based IPPS Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>339112</td>
<td>PPI - Commodity - Surgical and medical instruments</td>
<td>50%</td>
<td>56%</td>
</tr>
<tr>
<td>339113</td>
<td>PPI - Commodity - Medical and surgical appliances and supplies</td>
<td>50%</td>
<td>22%</td>
</tr>
<tr>
<td></td>
<td>PPI - Commodity - Miscellaneous products-Personal safety equipment and clothing</td>
<td>n/a</td>
<td>22%</td>
</tr>
</tbody>
</table>

(12) Rubber and Plastics

We are proposing to use the PPI Industry for Rubber and Plastic Products (BLS series code WPUU707) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

(13) Paper and Printing Products

We are proposing to use the PPI Industry for Converted Paper and Paperboard Products (BLS series code WPUO915) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

(14) Miscellaneous Products

We are proposing to use the PPI Industry for Finished Goods Less Food and Energy (BLS series code WPUFD4131) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.
(15) Professional Fees: Labor-Related

We are proposing to use the ECI for Total Compensation for Private Industry Workers in Professional and Related (BLS series code CIU2010000120000I) to measure the price growth of this category. It includes occupations such as legal, accounting, and engineering services. This is the same price proxy used in the 2014-based IPPS market basket.

(16) Administrative and Facilities Support Services

We are proposing to use the ECI for Total Compensation for Private Industry Workers in Office and Administrative Support (BLS series code CIU2010000220000I) to measure the price growth of this category. This is the same price proxy used in the 2014-based IPPS market basket.

(17) Installation, Maintenance, and Repair Services

We are proposing to use the ECI for Total Compensation for All Civilian Workers in Installation, Maintenance, and Repair (BLS series code CIU1010000430000I) to measure the price growth of this cost category. This is the same proxy used in the 2014-based IPPS market basket.

(18) All Other: Labor-Related Services

We are proposing to use the ECI for Total Compensation for Private Industry Workers in Service Occupations (BLS series code CIU2010000300000I) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

(19) Professional Fees: Nonlabor-Related

We are proposing to use the ECI for Total Compensation for Private Industry Workers in Professional and Related (BLS series code CIU2010000120000I) to measure the price growth of this category. This is the same price proxy that we are proposing to use for the Professional Fees: Labor-Related cost category and the same price proxy used in the 2014-based IPPS market basket.

(20) Financial Services

We are proposing to use the ECI for Total Compensation for Private Industry Workers in Financial Activities (BLS series code CIU201520A000000I) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

(21) Telephone Services

We are proposing to use the CPI for Telephone Services (BLS series code CUUR0000SEED) to measure the price growth of this cost category. This is the same price proxy used in the 2014-based IPPS market basket.

(22) All Other: Nonlabor-Related Services

We are proposing to use the CPI for All Items Less Food and Energy (BLS series code CUUR0000SA0L1E) to measure the price growth of this cost category. We believe that using the CPI for All Items Less Food and Energy avoids double counting of changes in food and energy prices as they are already captured elsewhere in the market basket. This is the same price proxy used in the 2014-based IPPS market basket.

Table IV–05 sets forth the proposed 2018-based IPPS market basket, including the cost categories and their respective weights and price proxies. For comparison purposes, the corresponding 2014-based IPPS market basket cost weights also are listed.
## TABLE IV-05.—PROPOSED 2018-BASED IPPS MARKET BASKET COST CATEGORIES, COST WEIGHTS, AND PRICE PROXIES COMPARED TO 2014-BASED IPPS MARKET BASKET COST WEIGHTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Compensation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Wages and Salaries&lt;sup&gt;1&lt;/sup&gt;</td>
<td>43.4</td>
<td>41.2</td>
<td>ECI for Wages and Salaries for All Civilian Workers in Hospitals</td>
</tr>
<tr>
<td>B. Employee Benefits&lt;sup&gt;1&lt;/sup&gt;</td>
<td>12.4</td>
<td>11.7</td>
<td>ECI for Total Benefits for All Civilian Workers in Hospitals</td>
</tr>
<tr>
<td>2. Utilities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Electricity and Other Non-Fuel Utilities&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1.1</td>
<td>1.5</td>
<td>PPI Commodity for Commercial Electric Power</td>
</tr>
<tr>
<td>B. Fuel: Oil and Gas</td>
<td>1.3</td>
<td>0.8</td>
<td>Blend of PPIs for Petroleum Refineries and Natural Gas</td>
</tr>
<tr>
<td>3. Professional Liability Insurance</td>
<td>1.2</td>
<td>1.0</td>
<td>CMS Hospital Professional Liability Insurance Premium Index</td>
</tr>
<tr>
<td>4. All Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. All Other Products</td>
<td>17.4</td>
<td>18.4</td>
<td>--</td>
</tr>
<tr>
<td>(1.) Pharmaceuticals</td>
<td>5.9</td>
<td>7.1</td>
<td>PPI Commodity for Pharmaceuticals for Human Use, Prescription</td>
</tr>
<tr>
<td>(2.) Food: Direct Purchases</td>
<td>2.3</td>
<td>1.6</td>
<td>PPI Commodity for Processed Foods and Feeds</td>
</tr>
<tr>
<td>(3.) Food: Contract Services</td>
<td>1.3</td>
<td>1.8</td>
<td>CPI for Food Away From Home (All Urban Consumers)</td>
</tr>
<tr>
<td>(4.) Chemicals</td>
<td>0.9</td>
<td>0.6</td>
<td>Blend of Chemical PPIs</td>
</tr>
<tr>
<td>(5.) Blood and Blood Products</td>
<td>0.8</td>
<td>0.6</td>
<td>PPI Industry for Blood and Organ Banks</td>
</tr>
<tr>
<td>(6.) Medical Instruments</td>
<td>2.9</td>
<td>4.1</td>
<td>Blend of PPIs</td>
</tr>
</tbody>
</table>
### Table IV–06

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(7.) Rubber and Plastics</td>
<td>0.8</td>
<td>0.6</td>
<td>PPI Commodity for Rubber and Plastic Products</td>
</tr>
<tr>
<td>(8.) Paper and Printing Products</td>
<td>1.5</td>
<td>0.9</td>
<td>PPI Commodity for Converted Paper and Paperboard Products</td>
</tr>
<tr>
<td>(9.) Miscellaneous Products</td>
<td>1.1</td>
<td>1.2</td>
<td>PPI Commodity for Finished Goods less Food and Energy</td>
</tr>
<tr>
<td>B. Labor-Related Services</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1.) Professional Fees: Labor-Related</td>
<td>6.8</td>
<td>8.6</td>
<td>ECI for Total Compensation for Private Industry Workers in Professional and Related</td>
</tr>
<tr>
<td>(2.) Administrative and Facilities Support Services</td>
<td>1.0</td>
<td>1.1</td>
<td>ECI for Total Compensation for Private Industry Workers in Office and Administrative Support</td>
</tr>
<tr>
<td>(3.) Installation, Maintenance and Repair Services</td>
<td>2.4</td>
<td>2.4</td>
<td>ECI for Total Compensation for Civilian Workers in Installation, Maintenance, and Repair</td>
</tr>
<tr>
<td>(4.) All Other: Labor-Related Services</td>
<td>2.3</td>
<td>2.6</td>
<td>ECI for Total Compensation for Private Industry Workers in Service Occupations</td>
</tr>
<tr>
<td>C. Nonlabor-Related Services</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1.) Professional Fees: Nonlabor-Related</td>
<td>5.1</td>
<td>7.0</td>
<td>ECI for Total Compensation for Private Industry Workers in Professional and Related</td>
</tr>
<tr>
<td>(2.) Financial Services</td>
<td>3.0</td>
<td>1.4</td>
<td>ECI for Total Compensation for Private Industry Workers in Financial Activities</td>
</tr>
<tr>
<td>(3.) Telephone Services</td>
<td>0.8</td>
<td>0.4</td>
<td>CPI for Telephone Services</td>
</tr>
<tr>
<td>(4.) All Other: Nonlabor-Related Services</td>
<td>1.7</td>
<td>1.8</td>
<td>CPI for All Items less Food and Energy</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100.0</strong></td>
<td><strong>100.0</strong></td>
<td><strong>--</strong></td>
</tr>
</tbody>
</table>

Note: The cost weights are calculated using three decimal places. For presentational purposes, we are displaying one decimal and, therefore, the detail may not add to the total due to rounding.

1 Contract labor is distributed to wages and salaries and employee benefits based on the share of total compensation that each category represents.

2 We are proposing to include Water and Sewerage costs in the Electricity and Non-Fuel Utilities cost category in the proposed 2018-based IPPS market basket. These costs were broken out separately in the 2014-based IPPS market basket.

Table IV–06 compares both the historical and forecasted percent changes in the 2014-based IPPS market basket and the proposed 2018-based IPPS market basket. The forecasted growth rates in Table IV–06 are based on IHS Global Inc.’s (IGI’s) fourth quarter 2020 forecast with historical data through third quarter 2020.
### TABLE IV-06.—2014-BASED AND PROPOSED 2018-BASED IPPS HOSPITAL OPERATING INDEX PERCENT CHANGE, FY 2017 THROUGH FY 2024

<table>
<thead>
<tr>
<th>Fiscal Year (FY)</th>
<th>2014-Based IPPS Market Basket Percent Change</th>
<th>Proposed 2018-Based IPPS Market Basket Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historical data:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2017</td>
<td>2.6</td>
<td>2.5</td>
</tr>
<tr>
<td>FY 2018</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>FY 2019</td>
<td>2.4</td>
<td>2.4</td>
</tr>
<tr>
<td>FY 2020</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Average FYs 2017-2020</td>
<td>2.4</td>
<td>2.4</td>
</tr>
<tr>
<td>Forecast:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2021</td>
<td>2.4</td>
<td>2.4</td>
</tr>
<tr>
<td>FY 2022</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>FY 2023</td>
<td>2.8</td>
<td>2.7</td>
</tr>
<tr>
<td>FY 2024</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Average FYs 2021-2024</td>
<td>2.7</td>
<td>2.7</td>
</tr>
</tbody>
</table>


There is no difference between the average percent change in the 2014-based and the proposed 2018-based IPPS market basket over the FY 2017 through FY 2020 time period. For FY 2022, the increase is projected to be 2.5 percent for both the 2014-based and proposed 2018-based IPPS market baskets.

3. Labor-Related Share

Under section 1886(d)(3)(E) of the Act, the Secretary estimates from time to time the proportion of payments that are labor-related. The portion of the national IPPS hospital’s costs which are attributable to wages and wage-related costs, of the DRG prospective payment rates. We refer to the proportion of hospitals’ costs that are attributable to wages and wage-related costs as the “labor-related share.”

The labor-related share is used to determine the proportion of the national PPS base payment rate to which the area wage index is applied. We include a cost category in the labor-related share if the costs are labor intensive and vary with the local labor market. For this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to include in the labor-related share the national average proportion of operating costs that are attributable to the following cost categories in the proposed 2018-based IPPS market basket: Wages and Salaries, Employee Benefits, Professional Fees: Labor-Related, Administrative and Facilities Support Services, Installation, Maintenance, and Repair Services, and All Other: Labor-Related Services, as we did in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38167).

Similar to the 2014-based IPPS market basket, we are proposing that the Professional Fees: Labor-Related cost category includes expenses associated with advertising and a proportion of legal services, accounting and auditing, engineering, and management consulting. As was done in the FY 2018 IPPS market basket rebasing, we are proposing to determine the proportion of legal, accounting and auditing, engineering, and management consulting services that meet our definition of labor-related services based on a survey of hospitals conducted by CMS in 2008. We notified the public of our intent to conduct this survey on December 9, 2005 (70 FR 73250) and received no comments (71 FR 8588).

A discussion of the composition of the survey and poststratification can be found in the FY 2010 IPPS/LTCH PPS final rule (74 FR 43850 through 43856). Based on the weighted results of the survey, we determined that hospitals purchase, on average, the following portions of contracted professional services outside of their local labor market:

- 34 percent of accounting and auditing services,
- 30 percent of engineering services,
- 33 percent of legal services,
- 42 percent of management consulting services.

We are proposing to apply each of these percentages to its respective Benchmark I-O cost category underlying the professional fees cost category. This is the methodology that we used to separate the 2014-based IPPS market basket professional fees cost category into Professional Fees: Labor-Related and Professional Fees: Nonlabor-Related cost categories. We are proposing to use the same methodology and survey results to separate the professional fees costs for the proposed 2018-based IPPS market basket into Professional Fees: Labor-Related and Professional Fees: Nonlabor-Related cost categories. We believe these survey results are appropriate to use for the proposed 2018-based IPPS market basket as they empirically determine the proportion of contracted professional services purchased by the industry that is attributable to local firms and the proportion that is purchased from national firms.

In the proposed 2018-based IPPS market basket, nonmedical professional fees that were subject to allocation based on these survey results represent approximately 6.4 percent of total operating costs (and are limited to those fees related to Accounting & Auditing, Legal, Engineering, and Management Consulting services). Based on our survey results, we are proposing to apportion 4.1 percentage points of the 6.4 percentage point figure into the
Professional Fees: Labor-Related share cost category and designate the remaining approximately 2.3 percentage points into the Professional Fees: Nonlabor-Related cost category.

In addition to the professional services listed earlier, we also classify a proportion of the Home Office/Related Organization cost weight into the Professional Fees: Labor-Related cost category as was done in the previous rebasing. We believe that many of these costs are labor-intensive and vary with the local labor market. However, data indicate that not all IPPS hospitals with home offices have home offices located in their local labor market. Therefore, we are proposing to include in the labor-related share only a proportion of the Home Office/Related Organization cost weight based on the methodology described in this rule.

For the proposed 2018-based IPPS market basket, based on Medicare cost report data, we found that approximately 65 percent of IPPS hospitals reported some type of home office information on their Medicare cost report for 2018 (for example, city, State, and zip code). Using the data reported on the Medicare cost report, we compared the location of the hospital with the location of the hospital’s home office. We then determined the proportion of costs that should be allocated to the labor-related share based on the percent of total hospital home office/related organization contract labor costs for those hospitals that had home offices located in their respective local labor markets—defined as being in the same MSA. We determined a hospital’s and home office’s MSAs using their zip code information from the Medicare cost report.

Based on these data, we determined the proportion of costs that should be allocated to the labor-related share based on the percent of hospital home office/related organization contract labor costs (equal to the sum of Worksheet S–3, Part II, column 4, lines 14.01, 14.02, 25.50, and 25.51). Using this methodology, we determined that 60 percent of hospitals’ home office compensation costs were for home offices located in their respective local labor markets. Therefore, we are proposing to allocate 60 percent of Home Office/Related Organization contract labor costs to the labor-related share. This is the same proportion we used for the 2014-based IPPS market basket, which was based on 2014 Medicare cost report data.

In the proposed 2018-based IPPS market basket, the Home Office/Related Organization cost weight that is subject to allocation based on the home office allocation methodology represent 5.9 percent of total operating costs. Based on the results of the home office analysis, as previously discussed, we are apportioning approximately 2.4 percentage points into the Professional Fees: Labor-Related cost category and designating the remaining approximately 2.4 percentage points into the Professional Fees: Nonlabor-Related cost category. In summary, based on the two previously mentioned allocations, we apportioned 7.6 percentage points of the professional fees and home office cost weights into the Professional Fees: Labor-Related cost category. This amount is added to the portion of professional fees that we already identified as labor-related using the I–O data such as contracted advertising and marketing costs (approximately 1.0 percentage point of total operating costs) resulting in a Professional Fees: Labor-Related cost weight of 8.6 percent.

Table IV–07 presents a comparison of the proposed 2018-based labor-related share and the 2014-based labor-related share. As discussed in section IV.B.1.b. of the preamble of this proposed rule, the Wages and Salaries and Employee Benefits cost weights reflect contract labor costs.

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2014-Based IPPS Market Basket Cost Weights</strong></td>
</tr>
<tr>
<td>Wages and Salaries</td>
</tr>
<tr>
<td>Employee Benefits</td>
</tr>
<tr>
<td>Professional Fees: Labor-Related</td>
</tr>
<tr>
<td>Administrative and Facilities Support Services</td>
</tr>
<tr>
<td>Installation, Maintenance, and Repair Services</td>
</tr>
<tr>
<td>All Other: Labor-Related Services</td>
</tr>
<tr>
<td><strong>Total Labor-Related Share</strong></td>
</tr>
</tbody>
</table>

Note: Detail may not add to total due to rounding.

Using the cost category weights from the proposed 2018-based IPPS market basket, we calculated a labor-related share of 67.6 percent, approximately 0.7 percentage point lower than the current labor-related share of 68.3 percent. This downward revision to the labor-related share is the net effect of two impacts. First, we updated the base year cost weights from 2014 to 2018 (-1.8 percentage points), which reflects a -2.8 percentage point revision from the compensation cost weight and a +1.0 percentage point revision from the labor-related portion of Home Office/Related Organization Contract Labor cost weight (60 percent of total cost weight). Second, there is an upward revision of 1.1 percentage points from the impact of updating the detailed cost weights to reflect 2012 Input-Output data.

Therefore, we are proposing to use a labor-related share of 67.6 percent for discharges occurring on or after October 1, 2021. We continue to believe, as we have stated in the past, that these operating cost categories are related to, influenced by, or vary with the local markets. Therefore, our definition of the
C. Market Basket for Certain Hospitals Presently Excluded From the IPPS

In the FY 2018 IPPS/LTCH PPS final rule, we increase limits under § 413.40. In the FY 2021 IPPS/LTCH PPS final rule (74 FR 43857), we adopted the use of the FY 2006-based IPPS operating market basket percentage increase to update the target amounts for children’s hospitals, PPS-excluded cancer hospitals and religious nonmedical health care institutions (RNHCIs). Children’s hospitals and PPS-excluded cancer hospitals and RNHCIs are still reimbursed solely under the reasonable cost-based system, subject to the rate-of-increase limits. Under these limits, an annual target amount (expressed in terms of the inpatient operating cost per discharge) is set for each hospital based on the hospital’s own historical cost experience trended forward by the applicable rate-of-increase percentages.

In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50603), under the broad authority in sections 1886(d)(3)(A) and (B), 1886(d)(3)(E), and 1671 of the Act and section 4454 of the BBA, consistent with our use of the IPPS operating market basket percentage increase to update target amounts, we adopted the use of the FY 2010-based IPPS operating market basket percentage increase to update the target amounts for children’s hospitals, PPS-excluded cancer hospitals, and RNHCIs that are paid on the basis of reasonable cost subject to the rate-of-increase limits under § 413.40. In addition, as discussed in the FY 2015 IPPS/LTCH PPS final rule (79 FR 50156 through 50157), consistent with §§ 412.23(g), 412.40(a)(2)(ii)(A), and 412.40(c)(3)(viii), we used the percentage increase in the FY 2010-based IPPS operating market basket to update the target amounts for children’s hospitals, PPS-excluded cancer hospitals, and RNHCIs located outside the 50 states, the District of Columbia, and Puerto Rico (that is, hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa) that are paid on the basis of reasonable cost subject to the rate-of-increase limits under § 413.40. We refer the reader to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38170) for discussion of why we believe it is appropriate to use the percentage increase in the IPPS operating market basket to update the target amounts for these excluded facilities.

As discussed in this section IV. of the preamble of this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to rebase and revise the IPPS operating market basket to a 2018 base year. We continue to believe that it is appropriate to use the increase in the IPPS operating market basket to update the target amounts for children’s hospitals, the PPS-excluded cancer hospitals, RNHCIs, and short-term acute care hospitals located outside the 50 states, the District of Columbia, and Puerto Rico (that is, hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa) for FY 2022 and subsequent fiscal years. Accordingly, for FY 2022, the rate-of-increase percentage to be applied to the target amount for these hospitals would be the FY 2022 percentage increase in the 2018-based IPPS operating market basket.

D. Rebasing and Revising the Capital Input Price Index (CIPI)

The CIPI was originally described in the FY 1993 IPPS final rule (57 FR 40016). There have been subsequent discussions of the CIPI presented in the IPPS proposed and final rules. The FY 2018 IPPS/LTCH PPS final rule (82 FR 38170 through 38175) described the most recent rebasing and revising of the CIPI to a 2014 base year, which reflected the capital cost structure of IPPS hospitals available at that time. For the FY 2022 IPPS update, we are proposing to rebase and revise the CIPI to a 2018 base year to reflect a more current structure of capital costs for IPPS hospitals. This proposed 2018-based CIPI was derived using 2018 cost reports for IPPS hospitals, which includes providers whose cost reporting period began on or after October 1, 2017, and prior to September 30, 2018. We are also proposing to start with the same subset of Medicare cost reports from IPPS hospitals as previously described in section IV.B.1.a. of the preamble of this proposed rule. As with the 2014-based index, we are proposing to develop two sets of weights to derive the proposed 2018-based CIPI. The first set of weights identifies the proportion of hospital capital expenditures attributable to each expenditure category, while the second set of weights is a set of relative vintage weights for depreciation and interest.

The set of vintage weights is used to identify the proportion of capital expenditures within a cost category that is attributable to each year over the useful life of the capital assets in that category. A more thorough discussion of vintage weights is provided later in this section.

Using 2018 Medicare cost reports, we are able to obtain capital costs for the following categories: Depreciation, Interest, Lease, and Other. Specifically, we are proposing to determine what proportion of total capital costs that each category represents using the data reported by IPPS hospitals on Worksheet A–7, Part III. As shown in the left column of Table IV–08, in 2018 depreciation expenses accounted for 67.5 percent of total capital costs, interest expenses accounted for 14.6 percent, leasing expenses accounted for 13.3 percent, and other capital expenses accounted for 4.7 percent.

We are also proposing to allocate lease costs across each of the remaining capital cost categories as was done in the 2014-based CIPI. We are proposing to proportionally distribute leasing costs among the cost categories of Depreciation, Interest, and Other, reflecting the assumption that the underlying cost structure of leases is similar to that of capital costs in general. As was done for the 2014-based CIPI, we are proposing to assume that 10 percent of the lease costs as a proportion of total capital costs represents overhead and to assign those costs to the Other capital cost category accordingly. Therefore, we are assuming that approximately 1.3 percent (13.3 percent x 0.1) of total capital costs represent lease costs attributable to overhead, and we are proposing to add this 1.3 percent to the 4.7 percent Other cost category weight. We are then proposing to distribute the remaining lease costs (12.0 percent, or 13.3 percent—1.3 percent) proportionally across the three cost categories (Depreciation, Interest, and Other) based on the proportion that these categories comprise of the sum of...
the Depreciation, Interest, and Other cost categories (excluding lease expenses). For example, the Other cost category represented 5.4 percent of all three cost categories (Depreciation, Interest, and Other) prior to any lease expenses being allocated. This 5.4 percent is applied to the 12.0 percent of remaining lease expenses so that another 0.6 percent of lease expenses as a percent of total capital costs is allocated to the Other cost category. Therefore, the resulting proposed Other cost weight is 6.6 percent (4.7 percent + 1.3 percent + 0.6 percent). This is the same methodology used for the 2014-based CIPI. The resulting cost weights of the proposed allocation of lease expenses are shown in the right column of Table IV–08.

Finally, we are proposing to further divide the Depreciation and Interest cost categories. We are proposing to separate the Depreciation cost category into the following two categories: (1) Building and Fixed Equipment and (2) Movable Equipment. We also are proposing to separate the Interest cost category into the following two categories: (1) Government/Nonprofit; and (2) For-profit.

To disaggregate the depreciation cost weight, we needed to determine the percent of total depreciation costs for IPPS hospitals (after the allocation of lease costs) that are attributable to building and fixed equipment, which we hereafter refer to as the “fixed percentage.” Based on Worksheet A–7, Part III data from the 2018 IPPS Medicare cost reports, we have determined that depreciation costs for building and fixed equipment account for approximately 49 percent of total depreciation costs, while depreciation costs for movable equipment account for approximately 51 percent of total depreciation costs. As was done for the 2014-based CIPI, we are proposing to apply this fixed percentage to the depreciation cost weight (after leasing costs are included) to derive a Depreciation cost weight attributable to Building and Fixed Equipment and a Depreciation cost weight attributable to Movable Equipment.

To disaggregate the interest cost weight, we needed to determine the percent of total interest costs for IPPS hospitals that are attributable to government and nonprofit facilities, which we hereafter refer to as the “nonprofit percentage,” because interest price pressures tend to differ between nonprofit and for-profit facilities. We are proposing to use interest costs data from Worksheet A–7, Part III of the 2018 Medicare cost reports for IPPS hospitals, which is the same methodology used for the 2014-based CIPI. The nonprofit percentage determined using this method is 90 percent. Table IV–09 provides a comparison of the 2014-based CIPI cost weights and the proposed 2018-based CIPI cost weights.

Table IV–08.—Proposed Allocation of Lease Expenses for the Proposed 2018-Based CIPI

<table>
<thead>
<tr>
<th>Cost Categories</th>
<th>Proposed Cost Shares Obtained from Medicare Cost Reports (Percent of Total Capital Costs)</th>
<th>Proposed Cost Shares After Allocation of Lease Expenses (Percent of Total Capital Costs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depreciation</td>
<td>67.5</td>
<td>76.8</td>
</tr>
<tr>
<td>Interest</td>
<td>14.6</td>
<td>16.6</td>
</tr>
<tr>
<td>Lease</td>
<td>13.3</td>
<td>-</td>
</tr>
<tr>
<td>Other</td>
<td>4.7</td>
<td>6.6</td>
</tr>
</tbody>
</table>

Note: Detail may not add to 100 percent due to rounding.

For the For-profit Interest cost category, we are proposing to use the iBoxx AAA Corporate Bond Yield index instead of the Moody’s AAA Corporate Bond Yield index that was used for the 2014-based IPPS market basket. Effective for December 2020, the Moody’s AAA Corporate Bond series is no longer available for use under license to IGI, the nationally-recognized economic and financial forecasting firm with which we contract to forecast the components of the market baskets and MFP. Therefore, we are proposing to replace the price proxy for the For-profit Interest cost category. We compared the iBoxx AAA Corporate Bond Yield index with the Moody’s AAA Corporate Bond Yield index and found that the average growth rates in the two series were similar. Over the historical time period of FY 2000 to FY 2020, the 4-quarter percent change moving average growth...
in the iBoxx series was approximately 0.1 percentage point higher, on average, than the Moody’s AAA corporate Bond Yield index.

For the Other capital cost category (including insurances, taxes, and other capital-related costs), we are proposing to continue to measure the price growth using the CPI for Rent of Primary Residence (All Urban Consumers) (BLS series code CUUS0000SEHA), which would reflect the price growth of these costs. We believe that these price proxies continue to be the most appropriate proxies for IPPS capital costs that meet our selection criteria of relevance, timeliness, availability, and reliability.

### TABLE IV-09.—PROPOSED 2018-BASED CIPI COST WEIGHTS AND PRICE PROXIES COMPARED TO 2014-BASED CIPI COST WEIGHTS

<table>
<thead>
<tr>
<th>Cost Categories</th>
<th>2014 Cost Weights</th>
<th>Proposed 2018 Cost Weights</th>
<th>Proposed Price Proxy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>100.0</td>
<td>100.0</td>
<td>BEA’s Chained Price Index for Private Fixed Investment in Structures, Nonresidential, Hospitals and Special Care</td>
</tr>
<tr>
<td>Depreciation</td>
<td>74.4</td>
<td>76.8</td>
<td>Average Yield on Domestic Municipal Bonds (Bond Buyer 20-Bond Index)</td>
</tr>
<tr>
<td>Building and Fixed Equipment</td>
<td>36.7</td>
<td>39.3</td>
<td>PPI Commodity for Machinery and Equipment</td>
</tr>
<tr>
<td>Movable Equipment</td>
<td>37.2</td>
<td>37.5</td>
<td>Average Yield on iBoxx AAA Corporate Bonds</td>
</tr>
<tr>
<td>Interest</td>
<td>18.2</td>
<td>16.6</td>
<td>CPI for Rent of Primary Residence</td>
</tr>
<tr>
<td>Government/Nonprofit</td>
<td>15.7</td>
<td>14.9</td>
<td></td>
</tr>
<tr>
<td>For- Profit</td>
<td>2.5</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>7.4</td>
<td>6.6</td>
<td></td>
</tr>
</tbody>
</table>

Note: The cost weights are calculated using three decimal places. For presentational purposes, we are displaying one decimal and therefore, the detail may not add to the total due to rounding.

Because capital is acquired and paid for over time, capital expenses in any given year are determined by both past and present purchases of physical and financial capital. The proposed vintage-weighted 2018-based CIPI is intended to capture the long-term consumption of capital, using vintage weights for depreciation (physical capital) and interest (financial capital). These vintage weights reflect the proportion of capital purchases attributable to each year of the expected life of building and fixed equipment, movable equipment, and interest.

Vintage weights are an integral part of the CIPI. Capital costs are inherently complicated and are determined by complex capital purchasing decisions, over time, based on such factors as interest rates and debt financing. In addition, capital is depreciated over time instead of being consumed in the same period it is purchased. By accounting for the vintage nature of capital, we are able to provide an accurate and stable annual measure of price changes. Annual nonvintage price changes for capital are unstable due to the volatility of interest rate changes and, therefore, do not reflect the actual annual price changes for IPPS capital costs. The CIPI reflects the underlying stability of the capital acquisition process.

To calculate the vintage weights for depreciation and interest expenses, we first needed a time series of capital purchases for building and fixed equipment and movable equipment. We found no single source that provides an appropriate time series of capital purchases by hospitals for all of the previously noted components of capital purchases. The early Medicare cost reports did not have sufficient capital data to meet this need. Data we obtained from the American Hospital Association (AHA) did not include annual capital purchases. However, we were able to obtain data on total expenses back to 1963 from the AHA. Consequently, we are proposing to use data from the AHA Panel Survey and the AHA Annual Survey to obtain a time series of total expenses for hospitals. We then are proposing to use data from the AHA Panel Survey supplemented with the ratio of depreciation to total hospital expenses obtained from the Medicare cost reports to derive a trend of annual depreciation expenses for 1963 through 2018. We are proposing to separate these depreciation expenses into annual amounts of building and fixed equipment depreciation and movable equipment depreciation as determined earlier. From these annual depreciation amounts, we derived annual end-of-year book values for building and fixed equipment and movable equipment using the expected life for each type of asset category. We used the AHA data and similar methodology to derive the 2014-based IPPS capital market basket.

To continue to calculate the vintage weights for depreciation and interest expenses, we also needed to account for the expected lives for building and fixed equipment, movable equipment, and interest for the proposed 2018-based CIPI. We are proposing to calculate the expected lives using Medicare cost report data. The expected life of any asset can be determined by dividing the value of the asset (excluding fully depreciated assets) by its current year depreciation amount. This calculation yields the estimated expected life of an asset if the rates of depreciation were to continue at current year levels, assuming straight-line depreciation. Using this proposed method, we determined the average expected life of building and fixed equipment to be equal to 27 years, and the average expected life of movable equipment to be equal to 12 years. For the expected life of interest, we believe that vintage weights for interest should represent the average expected life of building and fixed equipment because, based on previous research described in the FY 1997 IPPS final rule (61 FR 46198), the expected life of hospital debt instruments and the expected life of buildings and fixed equipment are similar. We note that the 2014-based CIPI was also based on an expected average life of building and fixed
equipment of 27 years and an expected average life of movable equipment of 12 years.

Multiplying these expected lives by the annual depreciation amounts results in annual year-end asset costs for building and fixed equipment and movable equipment. We then calculated a time series, beginning in 1964, of annual capital purchases by subtracting the previous year’s asset costs from the current year’s asset costs.

For the building and fixed equipment and movable equipment vintage weights, we are proposing to use the real annual capital-related purchase amounts for each asset type to capture the actual amount of the physical acquisition, net of the effect of price inflation. These real annual capital-related purchase amounts are produced by deflating the nominal annual purchase amount by the associated price proxy as provided earlier in this proposed rule. For the interest vintage weights, we are proposing to use the total nominal annual capital-related purchase amounts to capture the value of the debt instrument (including, but not limited to, mortgages and bonds). Using these capital purchases time series specific to each asset type, we are proposing to calculate the vintage weights for building and fixed equipment, for movable equipment, and for interest.

The vintage weights for each asset type are deemed to represent the average purchase pattern of the asset over its expected life (in the case of building and fixed equipment and interest, 27 years, and in the case of movable equipment, 12 years). For each asset type, we are proposing to use the time series of annual capital purchases available from 2018 back to 1964. These data allow us to derive twenty-nine 27-year periods of capital purchases for building and fixed equipment and interest, and forty-four 12-year periods of capital purchases for movable equipment. For each 27-year period for building and fixed equipment and interest, or 12-year period for movable equipment, we are proposing to calculate annual vintage weights by dividing the capital-related purchase amount in any given year by the total amount of purchases over the entire 27-year or 12-year period. This calculation was done for each year in the 27-year or 12-year period and for each of the periods for which we have data. We then calculated the average vintage weight for a given year of the expected life by taking the average of these vintage weights across the multiple periods of data.

The vintage weights for the proposed 2018-based CIPI and the 2014-based CIPI are presented in Table IV–10.
The process of creating vintage-weighted price proxies requires applying the vintage weights to the price proxy index where the last applied vintage weight in Table IV–10 is applied to the most recent data point. We have provided on the CMS website an example of how the vintage weighting price proxies are calculated, using example vintage weights and example price indices. The example can be found under the following CMS website link: [http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MedicareProgramRatesStats/MarketBasketResearch.html](http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MedicareProgramRatesStats/MarketBasketResearch.html) in the zip file titled “Weight Calculations as described in the IPPS FY 2010 Proposed Rule.”

Table IV–11 in this section of this rule compares both the historical and forecasted percent changes in the 2014-based CIPI and the proposed 2018-based CIPI.

### TABLE IV–10.--PROPOSED 2018-BASED CIPI AND 2014-BASED CIPI VINTAGE WEIGHTS

<table>
<thead>
<tr>
<th>Year</th>
<th>Building and Fixed Equipment</th>
<th>Movable Equipment</th>
<th>Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Proposed 2018-Based 27 years</td>
<td>2014-Based 27 years</td>
<td>Proposed 2018-Based 12 years</td>
</tr>
<tr>
<td>1</td>
<td>0.026</td>
<td>0.024</td>
<td>0.064</td>
</tr>
<tr>
<td>2</td>
<td>0.028</td>
<td>0.025</td>
<td>0.069</td>
</tr>
<tr>
<td>3</td>
<td>0.029</td>
<td>0.027</td>
<td>0.072</td>
</tr>
<tr>
<td>4</td>
<td>0.031</td>
<td>0.028</td>
<td>0.075</td>
</tr>
<tr>
<td>5</td>
<td>0.032</td>
<td>0.030</td>
<td>0.078</td>
</tr>
<tr>
<td>6</td>
<td>0.032</td>
<td>0.031</td>
<td>0.082</td>
</tr>
<tr>
<td>7</td>
<td>0.033</td>
<td>0.033</td>
<td>0.086</td>
</tr>
<tr>
<td>8</td>
<td>0.034</td>
<td>0.034</td>
<td>0.088</td>
</tr>
<tr>
<td>9</td>
<td>0.036</td>
<td>0.035</td>
<td>0.091</td>
</tr>
<tr>
<td>10</td>
<td>0.036</td>
<td>0.036</td>
<td>0.095</td>
</tr>
<tr>
<td>11</td>
<td>0.036</td>
<td>0.037</td>
<td>0.099</td>
</tr>
<tr>
<td>12</td>
<td>0.036</td>
<td>0.039</td>
<td>0.101</td>
</tr>
<tr>
<td>13</td>
<td>0.037</td>
<td>0.040</td>
<td>-</td>
</tr>
<tr>
<td>14</td>
<td>0.038</td>
<td>0.040</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>0.039</td>
<td>0.039</td>
<td>-</td>
</tr>
<tr>
<td>16</td>
<td>0.040</td>
<td>0.039</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>0.041</td>
<td>0.040</td>
<td>-</td>
</tr>
<tr>
<td>18</td>
<td>0.042</td>
<td>0.042</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>0.041</td>
<td>0.042</td>
<td>-</td>
</tr>
<tr>
<td>20</td>
<td>0.041</td>
<td>0.042</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>0.042</td>
<td>0.043</td>
<td>-</td>
</tr>
<tr>
<td>22</td>
<td>0.042</td>
<td>0.043</td>
<td>-</td>
</tr>
<tr>
<td>23</td>
<td>0.042</td>
<td>0.042</td>
<td>-</td>
</tr>
<tr>
<td>24</td>
<td>0.042</td>
<td>0.042</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>0.041</td>
<td>0.043</td>
<td>-</td>
</tr>
<tr>
<td>26</td>
<td>0.041</td>
<td>0.043</td>
<td>-</td>
</tr>
<tr>
<td>27</td>
<td>0.041</td>
<td>0.043</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>1.000</td>
<td>1.000</td>
<td>1.000</td>
</tr>
</tbody>
</table>

Note: Numbers may not add to total due to rounding.

1 Vintage weight in the last year (for example, year 27 for the proposed 2018-based CIPI) is applied to the most recent data point and prior vintage weights are applied going back in time. For example, year 27 vintage weight would be applied to the 2022q3 fixed price proxy level, year 26 vintage weight would be applied to the 2021q3 fixed price proxy level, etc.
IHS Global, Inc. forecasts a 1.0 percent increase in the proposed 2018-based CIPI for FY 2022, as shown in Table IV–11. The underlying vintage-weighted price increases for depreciation (including building and fixed equipment and movable equipment) and interest (including government/nonprofit and for-profit) based on the proposed 2018-based CIPI are included in Table IV–12.

### Table IV–11.—Comparison of 2014-Based and Proposed 2018-Based Capital Input Price Index, Percent Change, FY 2017 Through FY 2024

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>CIPI, 2014-Based</th>
<th>Proposed CIPI, 2018-Based</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Historical Data:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2017</td>
<td>1.1</td>
<td>1.0</td>
</tr>
<tr>
<td>FY 2018</td>
<td>1.2</td>
<td>1.1</td>
</tr>
<tr>
<td>FY 2019</td>
<td>1.4</td>
<td>1.3</td>
</tr>
<tr>
<td>FY 2020</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>Average FYs 2017-2020</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td><strong>Forecast:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2021</td>
<td>1.0</td>
<td>0.9</td>
</tr>
<tr>
<td>FY 2022</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>FY 2023</td>
<td>1.2</td>
<td>1.1</td>
</tr>
<tr>
<td>FY 2024</td>
<td>1.3</td>
<td>1.2</td>
</tr>
<tr>
<td>Average FYs 2021-2024</td>
<td>1.1</td>
<td>1.1</td>
</tr>
</tbody>
</table>


### Table IV–12.—Proposed 2018-Based Capital Input Price Index Percent Changes, Total and Depreciation and Interest Components—FYs 2017 Through 2024

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total</th>
<th>Depreciation</th>
<th>Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Historical Data:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2017</td>
<td>1.0</td>
<td>1.6</td>
<td>-2.4</td>
</tr>
<tr>
<td>FY 2018</td>
<td>1.1</td>
<td>1.6</td>
<td>-2.2</td>
</tr>
<tr>
<td>FY 2019</td>
<td>1.3</td>
<td>1.8</td>
<td>-1.9</td>
</tr>
<tr>
<td>FY 2020</td>
<td>1.2</td>
<td>1.8</td>
<td>-2.9</td>
</tr>
<tr>
<td><strong>Forecast:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2021</td>
<td>0.9</td>
<td>1.7</td>
<td>-3.6</td>
</tr>
<tr>
<td>FY 2022</td>
<td>1.0</td>
<td>1.7</td>
<td>-3.7</td>
</tr>
<tr>
<td>FY 2023</td>
<td>1.1</td>
<td>1.7</td>
<td>-3.3</td>
</tr>
<tr>
<td>FY 2024</td>
<td>1.2</td>
<td>1.8</td>
<td>-3.1</td>
</tr>
</tbody>
</table>

Rebasin the CPI from 2014 to 2018 did not have an impact on the percent change in the forecasted update for FY 2022 when rounded, as shown in Table IV–11.

V. Other Decisions and Changes to the IPPS for Operating Costs

A. Proposed Changes in the Inpatient Hospital Update for FY 2022

In accordance with section 1886(b)(3)(B)(i) of the Act, each year we update the national standardized amount for inpatient hospital operating costs by a factor called the “applicable percentage increase.” For FY 2022, we are setting the applicable percentage increase by applying the adjustments listed in this section in the same sequence as we did for FY 2021. (We note that section 1886(b)(3)(B)(xii) of the Act required an additional reduction each year only for FYs 2010 through 2019.) Specifically, consistent with section 1886(b)(3)(B) of the Act, as amended by sections 3401(a) and 10319(a) of the Affordable Care Act, we are setting the applicable percentage increase by applying the following adjustments in the following sequence. The applicable percentage increase under the IPPS for FY 2022 is equal to the rate-of-increase in the hospital market basket for IPPS hospitals in all areas, subject to all of the following:

- A reduction of one-quarter of the applicable percentage increase (prior to the application of other statutory adjustments; also referred to as the market basket update or rate-of-increase (with no adjustments)) for hospitals that fail to submit quality information under rules established by the Secretary in accordance with section 1886(b)(3)(B)(viii) of the Act.
- A reduction of three-quarters of the applicable percentage increase (prior to the application of other statutory adjustments; also referred to as the market basket update or rate-of-increase (with no adjustments)) for hospitals not considered to be meaningful EHR users in accordance with section 1886(b)(3)(B)(ix) of the Act.
- An adjustment based on changes in economy-wide productivity (the multifactor productivity (MFP) adjustment).

Section 1886(b)(3)(B)(xii) of the Act, as added by section 3401(a) of the Affordable Care Act, states that application of the MFP adjustment may result in the applicable percentage increase being less than zero.

We note, in compliance with section 404 of the MMA, in this proposed rule, we are proposing to replace the 2014-based IPPS operating and capital market baskets with the rebased and revised 2018-based IPPS operating and capital market baskets for FY 2022.

We are proposing to base the proposed FY 2022 market basket update used to determine the applicable percentage increase for the IPPS on IHS Global Inc.’s (IGI’s) fourth quarter 2020 forecast of the proposed 2018-based IPPS market basket rate-of-increase with historical data through third quarter 2020, which is estimated to be 2.5 percent. We also are proposing that if more recent data subsequently become available (for example, a more recent estimate of the market basket update and the MFP adjustment), we would use such data, if appropriate, to determine the FY 2022 market basket update and the MFP adjustment in the final rule.

For FY 2022, we are proposing an MFP adjustment of 0.2 percentage point. Similar to the market basket update, for this proposed rule, we used IGI’s fourth quarter 2020 forecast of MFP to compute the proposed FY 2022 MFP adjustment. As noted previously, we are proposing that if more recent data subsequently become available, we would use such data, if appropriate, to determine the FY 2022 market basket update and the MFP adjustment for the final rule.

In the FY 2012 IPPS/LTCH PPS final rule (76 FR 51689 through 51692), we finalized our methodology for calculating and applying the MFP adjustment. As explained in that rule, section 1886(b)(3)(B)(xi)(II) of the Act, as added by section 3401(a) of the Affordable Care Act, defines this productivity adjustment as equal to the 10-year moving average of changes in annual economy-wide, private nonfarm business MFP (as projected by the Secretary for the 10-year period ending with the applicable fiscal year, calendar year, cost reporting period, or other annual period). The Bureau of Labor Statistics (BLS) publishes the official measure of private nonfarm business MFP. We refer readers to the BLS website at http://www.bls.gov/mfp for the BLS historical published MFP data.

MFP is derived by subtracting the contribution of labor and capital input growth from output growth. The projections of the components of MFP are currently produced by IGI, a nationally recognized economic forecasting firm with which CMS contracts to forecast the components of the market baskets and MFP. As we discussed in the FY 2016 IPPS/LTCH PPS final rule (80 FR 49509), beginning with the FY 2016 rulemaking cycle, the MFP adjustment is calculated using the revised series developed by IGI to proxy the aggregate capital inputs. Specifically, in order to generate a forecast of MFP, IGI forecasts BLS aggregate capital inputs using a regression model. A complete description of the MFP projection methodology is available on the CMS website at: http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MedicareProgramRatesStats/MarketBasketResearch.html.

For FY 2022, we are proposing an MFP adjustment of 0.2 percentage point. Similar to the market basket update, for this proposed rule, we used IGI’s fourth quarter 2020 forecast of the MFP adjustment to compute the proposed FY 2022 MFP adjustment. As noted previously, we are proposing that if more recent data subsequently become available, we would use such data, if appropriate, to determine the FY 2022 market basket update and the MFP adjustment for the final rule.

Based on these data, we have determined four proposed applicable percentage increases to the standardized amount for FY 2022, as specified in the following table:
In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42344), we revised our regulations at 42 CFR 412.64(d) to reflect the current law for the update for FY 2020 and subsequent fiscal years. Specifically, in accordance with section 1886(b)(3)(B) of the Act, we added paragraph (d)(1)(viii) to §412.64 to set forth the applicable percentage increase to the operating standardized amount for FY 2020 and subsequent fiscal years as the percentage increase in the market basket index, subject to the reductions specified under §412.64(d)(2) for a hospital that does not submit quality data and §412.64(d)(3) for a hospital that is not a meaningful EHR user, less an MFP adjustment. (As previously noted, section 1886(b)(3)(B)(xii) of the Act required an additional reduction each year only for FYs 2010 through 2019.)

Section 1886(b)(3)(B)(iv) of the Act provides that the applicable percentage increase to the hospital-specific rates for SCHs and MDHs equals the applicable percentage increase set forth in section 1886(b)(3)(B)(i) of the Act (that is, the same update factor as for all other hospitals subject to the IPPS). Therefore, the update to the hospital-specific rates for SCHs and MDHs is subject to section 1886(b)(3)(B)(i) of the Act, as amended by sections 3401(a) and 10319(a) of the Affordable Care Act. (Under current law, the MDH program is effective for discharges on or before September 30, 2022, as discussed in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41429 through 41439).)

For FY 2022, we are proposing the following updates to the hospital-specific rates applicable to SCHs and MDHs: a proposed update of 2.3 percent for a hospital that submits quality data and is a meaningful EHR user; a proposed update of 0.425 percent for a hospital that submits quality data and is not a meaningful EHR user; a proposed update of 1.675 percent for a hospital that fails to submit quality data and is not a meaningful EHR user; and a proposed update of −0.2 percent for a hospital that fails to submit quality data and is not a meaningful EHR user. As noted previously, for this proposed rule, we are using IGI’s fourth quarter 2020 forecast of the proposed 2018-based IPPS market basket update with historical data through third quarter 2020. Similarly, we used IGI’s fourth quarter 2020 forecast of the MFP adjustment. We are proposing that if more recent data subsequently became available (for example, a more recent estimate of the market basket update and the MFP adjustment), we would use such data, if appropriate, to determine the update in the final rule.

2. Proposed FY 2022 Puerto Rico Hospital Update

Section 602 of Public Law 114–113 amended section 1886(n)(6)(B) of the Act to specify that subsection (d) Puerto Rico hospitals are eligible for incentive payments for the meaningful use of certified EHR technology, effective beginning FY 2016. In addition, section 1886(n)(6)(B) of the Act was amended to specify that the adjustments to the applicable percentage increase under section 1886(b)(3)(B)(ix) of the Act apply to subsection (d) Puerto Rico hospitals that are not meaningful EHR users, effective beginning FY 2022. Accordingly, for FY 2022, section 1886(b)(3)(B)(ix) of the Act in conjunction with section 602(d) of Public Law 114–113 requires that any subsection (d) Puerto Rico hospital that is not a meaningful EHR user as defined in section 1886(n)(3) of the Act and not subject to an exception under section 1886(b)(3)(B)(ix) of the Act will have “three-quarters” of the applicable percentage increase (prior to the application of other statutory adjustments), or three-quarters of the applicable market basket rate-of-increase, reduced by 33 1/3 percent. The reduction to three-quarters of the applicable percentage increase for subsection (d) Puerto Rico hospitals that are not meaningful EHR users increases to 66 2/3 percent for FY 2023, and, for FY 2024 and subsequent fiscal years, to 100 percent. (We note that section 1886(b)(3)(B)(viii) of the Act, which specifies the adjustment to the applicable percentage increase for “subsection (d)” hospitals that do not submit quality data under the rules established by the Secretary, is not applicable to hospitals located in Puerto Rico.) The regulations at 42 CFR 412.64(d)(3)(ii) reflect the current law for the update for subsection (d) Puerto Rico hospitals for FY 2022 and subsequent fiscal years. In the FY 2019 IPPS/LTCH PPS final rule, we finalized the payment reductions (83 FR 41674). For FY 2022, consistent with section 1886(b)(3)(B) of the Act, as amended by section 602 of Public Law 114–113, we are setting the applicable percentage increase for Puerto Rico hospitals by applying the following adjustments in the following sequence. Specifically, the applicable percentage increase under the IPPS for Puerto Rico hospitals will be equal to the rate-of-increase in the hospital market basket for IPPS hospitals in all areas, subject to a 33 1/3 percent reduction to three-fourths of the

<table>
<thead>
<tr>
<th>FY 2022</th>
<th>Hospital Submitted Quality Data and is a Meaningful EHR User</th>
<th>Hospital Submitted Quality Data and is NOT a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is NOT a Meaningful EHR User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Market Basket Rate-of-Increase</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Proposed Adjustment for Failure to Submit Quality Data under Section 1886(b)(3)(B)(viii) of the Act</td>
<td>0</td>
<td>0</td>
<td>-0.625</td>
<td>-0.625</td>
</tr>
<tr>
<td>Proposed Adjustment for Failure to be a Meaningful EHR User under Section 1886(b)(3)(B)(ix) of the Act</td>
<td>0</td>
<td>-1.875</td>
<td>0</td>
<td>-1.875</td>
</tr>
<tr>
<td>Proposed MFP Adjustment under Section 1886(b)(3)(B)(xi) of the Act</td>
<td>-0.2</td>
<td>-0.2</td>
<td>-0.2</td>
<td>-0.2</td>
</tr>
<tr>
<td>Proposed Applicable Percentage Increase Applied to Standardized Amount</td>
<td>2.3</td>
<td>0.425</td>
<td>1.675</td>
<td>-0.2</td>
</tr>
</tbody>
</table>
applicable percentage increase (prior to the application of other statutory adjustments; also referred to as the market basket update or rate-of-increase (with no adjustments)) for Puerto Rico hospitals not considered to be meaningful EHR users in accordance with section 1886(b)(3)(B)(ix) of the Act, and then subject to the MFP adjustment at section 1886(b)(3)(B)(ix) of the Act.

As noted previously, section 1886(b)(3)(B)(ix) of the Act states that application of the MFP adjustment may result in the applicable percentage increase being less than zero.

Based on IGI's fourth quarter 2020 forecast of the proposed 2018 based IPPS market basket update with historical data through third quarter 2020, for this FY 2022 proposed rule, in accordance with section 1886(b)(3)(B) of the Act, as discussed previously, for Puerto Rico hospitals we are proposing a market basket update of 2.5 percent and an MFP adjustment of 0.2 percent. Therefore, for FY 2022, depending on whether a Puerto Rico hospital is a meaningful EHR user, there are two possible applicable percentage increases that can be applied to the standardized amount. Based on these data, we have determined the following proposed applicable percentage increases to the standardized amount for FY 2022 for Puerto Rico hospitals:

- For a Puerto Rico hospital that is a meaningful EHR user, we are proposing an applicable percentage increase to the FY 2022 operating standardized amount of 2.3 percent (that is, the FY 2022 estimate of the proposed market basket rate-of-increase of 2.5 percent less an adjustment of 0.2 percentage point for the proposed MFP adjustment).
- For a Puerto Rico hospital that is not a meaningful EHR user, we are proposing an applicable percentage increase to the operating standardized amount of 1.675 percent (that is, the FY 2022 estimate of the proposed market basket rate-of-increase of 2.5 percent less an adjustment of 0.625 percentage point (the proposed market basket rate-of-increase of 2.5 percent x 0.75)/3) for failure to be a meaningful EHR user, less an adjustment of 0.2 percentage point for the proposed MFP adjustment.

As noted previously, we are proposing that if more recent data subsequently become available, we would use such data, if appropriate, to determine the FY 2022 market basket update and the MFP adjustment for the FY 2022 IPPS/LTCH PPS final rule.

B. Rural Referral Centers (RRCs)

Proposed Annual Updates to Case-Mix Index (CMI) and Discharge Criteria (§ 412.96)

Under the authority of section 1866(d)(3)(C)(i) of the Act, the regulations at § 412.96 set forth the criteria that a hospital must meet in order to qualify under the IPPS as a rural referral center (RRC). RRCs receive special treatment under both the DSH payment adjustment and the criteria for geographic reclassification.

Section 402 of Public Law 108–173 raised the DSH payment adjustment for RRCs such that they are not subject to the 12-percent cap on DSH payments that is applicable to other rural hospitals. RRCs also are not subject to the proximity criteria when applying for geographic reclassification. In addition, they do not have to meet the requirement that a hospital's average hourly wage must exceed, by a certain percentage, the average hourly wage of the labor market area in which the hospital is located.

Section 4202(b) of Public Law 105–35 states, in part, that any hospital classified as an RRC by the Secretary for FY 1991 shall be classified as such an RRC for FY 1998 and each subsequent fiscal year. In the August 29, 1997 IPPS final rule with comment period (62 FR 45999), we reinstated RRC status for all hospitals that lost that status due to triennial review or MGCRB reclassification. However, we did not reinstate the status of hospitals that lost RRC status because they were now urban for all purposes because of the OMB designation of their geographic area as urban. Subsequently, in the August 1, 2000 IPPS final rule (65 FR 47089), we indicated that we were revisiting that decision. Specifically, we stated that we would permit hospitals that previously qualified as an RRC and lost their status due to OMB redesignation of the county in which they were located from rural to urban, to be reinstated as an RRC. Otherwise, a hospital seeking RRC status must satisfy all of the other applicable criteria. We use the definitions of “urban” and “rural” specified in subpart D of 42 CFR part 412. One of the criteria under which a hospital may qualify as an RRC is to have 275 or more beds available for use (§ 412.96(b)(1)(iii)). A rural hospital that does not meet the bed size requirement can qualify as an RRC if the hospital meets two mandatory prerequisites (a minimum case-mix index (CMI) and a minimum number of discharges), and at least one of three optional criteria (relating to specialty composition of medical staff, source of inpatients, or referral volume). (We refer readers to § 412.96(c)(1) through (5) and the September 30, 1988 Federal Register (53 FR 38513) for additional discussion.) With respect to the two mandatory prerequisites, a hospital may be classified as an RRC if—

- The hospital’s CMI is at least equal to the lower of the median CMI for urban hospitals in its census region, excluding hospitals with approved teaching programs, or the median CMI for all urban hospitals nationally; and
- The hospital’s number of discharges is at least 5,000 per year, or, if fewer, the median number of discharges for urban hospitals in the census region in which the hospital is located. The number of discharges criterion for an osteopathic hospital is at least 3,000 discharges per year, as specified in section 1886(d)(3)(C)(i) of the Act.

1. Proposed Amendment to Timeframe Used for Case-Mix Index (CMI) Under § 412.96(e)(1) and § 412.96(h) and Discharges Under § 412.96(f) for RRC Classification

a. Case-Mix Index (CMI)

As previously noted, in addition to meeting other criteria, to qualify for initial RRC status for cost reporting periods beginning on or after October 1 of a given fiscal year, under § 412.96(e)(1), a hospital must meet the minimum case-mix index (CMI) value during the most recent Federal fiscal year that ended at least one year prior to the beginning of the cost reporting period for which the hospital is seeking RRC status. We typically use the data from the Federal fiscal year that is two years prior to the Federal fiscal year for which a hospital is seeking RRC status to compute the national and regional median CMI values, as these are generally the best available data at the time of the development of the proposed and final rules. For example, in the FY 2021 IPPS/LTC PPS final rule, we calculated the national and regional median CMIs using discharges occurring during FY 2019 (October 1, 2018 through September 30, 2019).

However, as discussed in section I.F. of this proposed rule, the best available data to use for certain purposes of this FY 2022 rulemaking may not be the FY 2020 data that we would ordinarily use, due to the impact of the COVID–19 PHE. We believe that the differences in utilization for certain types of services in FY 2020 as compared to what would have been expected in the absence of the PHE also affects the calculation of the CMI values used for purposes of determining RRC status. We note that the CMI values calculated using the FY
2020 data are significantly different from the CMI values calculated using the FY 2019 data. As such, while we would normally propose to use data from FY 2020 to calculate CMI values for this FY 2022 proposed rule, we are instead proposing to use values that are based on discharges occurring during FY 2019 (October 1, 2018 through September 30, 2019), and include bills posted to CMS’ records through March 2020. We are making available for public comment the CMI values calculated using the FY 2020 data that we would ordinarily propose to use. We refer readers to the “Alternatives Considered” discussion in section I.O. of Appendix A for where these and other supplemental files may be found.

Accordingly, we are proposing to amend § 412.96(c)(1) with regard to the data to be used in identifying the CMI value for an individual hospital that is used to determine whether the hospital meets the CMI criteria for purposes for RRC classification. Specifically, we are proposing to amend § 412.96(c)(1) to indicate that the individual hospital’s CMI value for discharges during the same fiscal year used to compute the national and regional CMI values is used for purposes of determining whether a hospital qualifies for RRC classification. We are also proposing to amend § 412.96(h)(1) to provide for the use of the best available data rather than the latest available data in calculating the national and regional CMI criteria.

b. Discharges

As previously noted, in addition to meeting other criteria, to qualify for initial RRC status for cost reporting periods beginning on or after October 1 of a given fiscal year, under § 412.96(c)(2), a hospital must meet the minimum number of discharges during its cost reporting period that began during the same fiscal year as the cost reporting periods used to compute the regional median discharges. We typically use the cost reporting periods that are 3 years prior to the fiscal year for which a hospital is seeking RRC status to compute the regional median discharges, as these are generally the latest cost report data available at the time of the development of the proposed final rules. For example, in FY 2021 IPPS/LTCH PPS final rule, we calculated the regional standards based on discharges for urban hospitals’ cost reporting periods that began during FY 2018.

However, as discussed in section I.F. of this proposed rule and as previously noted with respect to the CMI calculation, the best available data to use for certain purposes of this FY 2022 rulemaking may not be the FY 2019 cost report data that we would ordinarily use, due to the impact of the COVID–19 PHE. We believe that the differences in utilization for certain types of services in FY 2019 cost reporting periods that spanned the PHE as compared to what would have been expected in the absence of the PHE also affects the calculation of the regional median discharges used for purposes of determining RRC status. We note that the regional median discharges calculated using the FY 2019 cost report data are different from the regional median discharges values calculated using the FY 2018 data. As such, while we ordinarily would have proposed to calculate the regional median discharges based on cost reports with cost reporting periods beginning in FY 2019 (October 1, 2018 through September 30, 2019), we are instead proposing to calculate the regional median discharges based on cost reports with cost reporting periods beginning in FY 2018 (October 1, 2017 through September 30, 2018). We are making available for public comment the regional median discharges calculated using FY 2019 cost report data that we would ordinarily propose to use. We refer readers to the “Alternatives Considered” discussion in section I.O. of Appendix A for where these and other supplemental files may be found.

Accordingly, we are proposing to amend the regulations at § 412.96(i)(1) and (2), which describe the methodology for calculating the number of discharges criteria, to provide for the use of the best available data rather than the latest available or most recent data when calculating the regional discharges for RRC classification.

2. Case-Mix Index (CMI)

Section 412.96(c)(1) provides that CMS establish updated national and regional CMI values in each year’s annual notice of prospective payment rates for purposes of determining RRC status. The methodology we used to determine the national and regional CMI values is set forth in the regulations at § 412.96(c)(1)(ii), in conjunction with the proposed amendment to provide for the use of the best available data rather than the use of the latest available data. The proposed national median CMI value for FY 2022 is based on the CMI values of all urban hospitals nationwide, and the proposed regional median CMI values for FY 2022 are based on the CMI values of all urban hospitals within each census region, excluding those hospitals with approved teaching programs (that is, those hospitals that train residents in an approved GME program as provided in § 413.75). For the reasons discussed previously, the proposed values are based on discharges occurring during FY 2019 (October 1, 2018 through September 30, 2019), and include bills posted to CMS’ records through March 2020.

In this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing that, in addition to meeting other criteria, if rural hospitals with fewer than 275 beds are to qualify for initial RRC status for cost reporting periods beginning on or after October 1, 2021, they must have a CMI value for FY 2019 that is at least—

- 1.7049 (national—all urban); or
- The median CMI value (not transfer-adjusted) for urban hospitals (excluding hospitals with approved teaching programs as identified in § 413.75) calculated by CMS for the census region in which the hospital is located.

The proposed median CMI values by region are set forth in the table in this section of this rule. We may update the proposed CMI values in the FY 2022 final rule to reflect finalized policies for FY 2022, including the best available data.
A hospital seeking to qualify as an RRC should obtain its hospital-specific CMI value (not transfer-adjusted) from its MAC. Data are available on the Provider Statistical and Reimbursement (PS&R) System. In keeping with our policy on discharges, the CMI values are computed based on all Medicare patient discharges subject to the IPPS MS–DRG-based payment.

3. Discharges

Section 412.96(c)(2)(i) provides that CMS set forth the national and regional numbers of discharges criteria in each year's annual notice of prospective payment rates for purposes of determining RRC status. As specified in section 1886(d)(5)(C)(ii) of the Act, the national standard is set at 5,000 discharges. For FY 2022, consistent with our proposed amendments to §412.96(i)(1) and (2) to provide for the best available data rather than the latest available or most recent data, we are proposing to update the regional standards based on discharges for urban hospitals’ cost reporting periods that began during FY 2018 (that is, October 1, 2017 through September 30, 2018). Therefore, we are proposing that, in addition to meeting other criteria, a hospital, if it is to qualify for initial RRC status for cost reporting periods beginning on or after October 1, 2021, must have, as the number of discharges for its cost reporting period that began during FY 2018, at least—

- 5,000 (3,000 for an osteopathic hospital); or

- If less, the median number of discharges for urban hospitals in the census region in which the hospital is located. We refer readers to the proposed number of discharges in the table set forth in this section of the rule.

We note that because the median number of discharges for hospitals in each census region is greater than the national standard of 5,000 discharges, under this proposed rule, 5,000 discharges is the minimum criterion for all hospitals, except for osteopathic hospitals for which the minimum criterion is 3,000 discharges.

C. Proposed Payment Adjustment for Low-Volume Hospitals (§412.101)

1. Background

Section 1886(d)(12) of the Act provides for an additional payment to each qualifying low-volume hospital under the IPPS beginning in FY 2005. The additional payment adjustment to a low-volume hospital provided for under section 1886(d)(12) of the Act is in addition to any payment calculated under section 1886 of the Act. Therefore, the additional payment adjustment is based on the per discharge amount paid to the qualifying hospital under section 1886 of the Act. In other words, the low-volume hospital payment adjustment is based on total per discharge payments made under section 1886 of the Act, including capital, DSH, IME, and outlier payments. For SCHs and MDHs, the low-volume hospital payment adjustment is based in part on either the Federal rate or the hospital-specific rate,
whichver results in a greater operating IPPS payment.

As discussed in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41398 through 41399), section 50204 of the Bipartisan Budget Act of 2018 (Pub. L. 115–123) modified the definition of a low-volume hospital and the methodology for calculating the payment adjustment for low-volume hospitals for FYs 2019 through 2022. (Section 50204 also extended prior changes to the definition of a low-volume hospital and the methodology for calculating the payment adjustment for low-volume hospitals through FY 2018.) Currently, the low-volume hospital qualifying criteria provide that a hospital must have fewer 3,800 total discharges during the fiscal year, and the hospital must be located more than 15 road miles from the nearest “subsection (d)” hospital. These criteria will remain in effect through FY 2022.

Beginning with FY 2023, the low-volume hospital qualifying criteria and payment adjustment will revert to the statutory requirements that were in effect prior to FY 2011. Therefore, in order for a hospital to continue to qualify as a low-volume hospital on or after October 1, 2022, it must have fewer than 200 total discharges during the fiscal year and be located more than 25 road miles from the nearest “subsection (d)” hospital (see § 412.101(b)(2)(ii)).

For additional information on the low-volume hospital payment adjustment prior to FY 2018, we refer readers to the FY 2017 IPPS/LTCH PPS final rule (81 FR 56941). For additional information on the low-volume hospital payment adjustment for FY 2018, we refer readers to the FY 2018 IPPS notice (CMS–1677–N) that appeared in the Federal Register on April 26, 2018 (83 FR 18301 through 18308).

2. Temporary Changes to the Low-Volume Hospital Definition and Payment Adjustment Methodology for FYs 2019 Through 2022

As discussed earlier, section 50204 of the Bipartisan Budget Act of 2018 further modified the definition of a low-volume hospital and the methodology for calculating the payment adjustment for low-volume hospitals for FYs 2019 through 2022. Specifically, the qualifying criteria for low-volume hospitals under section 1886(d)(12)(D) of the Act were amended to specify that, for FYs 2019 through 2022, subsection (d) hospital qualifies as a low-volume hospital if it is more than 15 road miles from the nearest subsection (d) hospital and has less than 3,800 total discharges during the fiscal year.

For this purpose, we specified that the “number of total discharges” is determined as total discharges, which includes Medicare and non-Medicare discharges during the fiscal year, based on the hospital’s most recently submitted cost report. The low-volume hospital payment adjustment for FYs 2019 through 2022 is calculated using the following formula:

\[
\text{Low-Volume Hospital Payment Adjustment} = 0.25 - \left[ \frac{0.25}{3300} \right] \times (\text{number of total discharges} - 500) = (95/330) - (\text{number of total discharges/13,200}).
\]

As explained earlier, for FY 2019 and subsequent fiscal years, the discharge determination is made based on the hospital’s number of total discharges, that is, Medicare and non-Medicare discharges, as was the case for FYs 2005 through 2010. Under § 412.101(b)(2)(ii) and (iii), a hospital’s most recently submitted cost report is used to determine if the hospital meets the discharge criterion to receive the low-volume hospital payment adjustment in the current year. As discussed in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41399 and 41400), we use cost report data to determine if a hospital meets the discharge criterion because this is the best available data source that includes information on both Medicare and non-Medicare discharges. (For FYs 2011 through 2018, the most recently available MedPAR data were used to determine the hospital’s Medicare discharges because non-Medicare discharges were not used to determine if a hospital met the discharge criterion for those years.) Therefore, a hospital should refer to its most recently...
determine payment for the hospital’s discharges for the fiscal year, effective prospectively within 30 days of the date of the MAC’s low-volume status determination.

Consistent with this previously established process, for FY 2022, we are proposing that a hospital must submit a written request for low-volume hospital status to its MAC that includes sufficient documentation to establish that the hospital meets the applicable mileage and discharge criteria (as described earlier). Consistent with historical practice, for FY 2022, we are proposing that a hospital’s written request must be received by its MAC no later than September 1, 2021 in order for the low-volume hospital payment adjustment to be applied to payments for its discharges beginning on or after October 1, 2021. If a hospital’s written request for low-volume hospital status for FY 2022 is received after September 1, 2021, and if the MAC determines the hospital meets the criteria to qualify as a low-volume hospital, the MAC would apply the low-volume hospital payment adjustment to determine the payment for the hospital’s FY 2022 discharges, effective prospectively within 30 days of the date of the MAC’s low-volume hospital status determination. We note that this proposal is generally consistent with the process for requesting and obtaining the low-volume hospital payment adjustment for FY 2021 (85 FR 58802 through 58803).936

Under this process, a hospital receiving the low-volume hospital payment adjustment for FY 2021 may continue to receive a low-volume hospital payment adjustment for FY 2022 without reapplying if it continues to meet the applicable mileage and discharge criteria (which, as discussed previously, are the same qualifying criteria that apply for FY 2021). In this case, a hospital’s request can include a verification statement that it continues to meet the mileage criterion applicable for FY 2022. (Determination of meeting the discharge criterion is discussed earlier in this section.) We note that a hospital must continue to meet the applicable qualifying criteria as a low-volume hospital (that is, the hospital must meet the applicable discharge criterion and mileage criterion for the fiscal year) in order to receive the payment adjustment for that fiscal year; that is, low-volume hospital status is not based on a “one-time” qualification (75 FR 50238 through 50275). Consistent with historical policy, a hospital must submit its request, including this written verification, for each fiscal year for which it seeks to receive the low-volume hospital payment adjustment, and in accordance with the timeline described earlier.

D. Proposed Indirect Medical Education (IME) Payment Adjustment Factor (§412.105)

Under the IPPS, an additional payment amount is made to hospitals with residents in an approved graduate medical education (GME) program in order to reflect the higher indirect patient care costs of teaching hospitals relative to nonteaching hospitals. The payment amount is determined by use of a statutorily specified adjustment factor. The regulations regarding the calculation of this additional payment, known as the IME adjustment, are located at §412.105. We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51680) for a full discussion of the IME adjustment and IME adjustment factor. Section 1886(d)(5)(B)(ii)(XII) of the Act provides that, for discharges occurring during FY 2008 and fiscal years thereafter, the IME formula multiplier is 1.35. Accordingly, for discharges occurring during FY 2022, the formula multiplier is 1.35. We estimate that application of this formula multiplier for the FY 2022 IME adjustment will result in an increase in IPPS payment of 5.5 percent for every approximately 10 percent increase in the hospital’s resident-to-bed ratio.

E. Proposed Payment Adjustment for Medicare Disproportionate Share Hospitals (DSHs) for FY 2022 (§412.106)

1. General Discussion

Section 1886(d)(5)[F] of the Act provides for additional Medicare payments to subsection (d) hospitals that serve a significantly disproportionate number of low-income patients. The Act specifies two methods by which a hospital may qualify for the Medicare disproportionate share hospital (DSH) adjustment. Under the first method, hospitals that are located in an urban area and have 100 or more beds may receive a Medicare DSH payment adjustment if the hospital can demonstrate that, during its cost reporting period, more than 30 percent of its net inpatient care revenues are derived from State and local government payments for care furnished to patients with low incomes. This method is commonly referred to as the “Pickle method.” The second method for qualifying for the DSH payment

---

935 We note that for FY 2021, we established a deadline of September 15, 2020 for receipt of a hospital’s written request by its MAC in order for the low-volume hospital payment adjustment to be applied to payments for a hospital’s discharges beginning on or after October 1, 2020, as discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58803).

936 As noted, CMS established a deadline of September 15, 2020 for receipt of the hospital’s written request for FY 2021, as discussed in the FY 2021 IPPS/LTCH PPS final rule.
adjustment, which is the most common, is based on a complex statutory formula under which the DSH payment adjustment is based on the hospital’s geographic designation, the number of beds in the hospital, and the level of the hospital’s disproportionate patient percentage (DPP). A hospital’s DPP is the sum of two fractions: The “Medicare fraction” and the “Medicaid fraction.” The Medicare fraction (also known as the “SSI fraction” or “SSI ratio”) is computed by dividing the number of the hospital’s inpatient days that are furnished to patients who were entitled to both Medicare Part A and Supplemental Security Income (SSI) benefits by the hospital’s total number of patient days furnished to patients entitled to benefits under Medicare Part A. The Medicaid fraction is computed by dividing the hospital’s number of inpatient days furnished to patients who, for such days, were eligible for Medicaid, but were not entitled to benefits under Medicare Part A, by the hospital’s total number of inpatient days in the same period.

Because the DSH payment adjustment is part of the IPPS, the statutory references to “days” in section 1886(d)(5)(F) of the Act have been interpreted to apply only to hospital acute care inpatient days. Regulations located at 42 CFR 412.106 govern the Medicare DSH payment adjustment and specify how the DPP is calculated as well as how beds and patient days are counted in determining the Medicare DSH payment adjustment. Under § 412.106(a)(1)(i), the number of beds for the Medicare DSH payment adjustment is determined in accordance with bed counting rules for the IME adjustment under § 412.105(b).

Section 3133 of the Patient Protection and Affordable Care Act, as amended by section 10316 of the same Act and section 1104 of the Health Care and Education Reconciliation Act (Pub. L. 111–152), added a section 1886(r) to the Act that modifies the methodology for computing the Medicare DSH payment adjustment. (For purposes of this proposed rule, we refer to these provisions collectively as section 3133 of the Affordable Care Act.) Beginning with discharges in FY 2014, hospitals that qualify for Medicare DSH payments under section 1886(d)(5)(F) of the Act receive 25 percent of the amount they previously would have received under the statutory formula for Medicare DSH payments. This provision applies equally to hospitals that qualify for DSH payments under section 1886(d)(5)(F)(i)(I) of the Act and those hospitals that qualify under the Pickle method under section 1886(d)(5)(F)(i)(II) of the Act.

The remaining amount, equal to an estimate of 75 percent of what otherwise would have been paid as Medicare DSH payments, reduced to reflect changes in the percentage of individuals who are uninsured, is available to make additional payments to each hospital that qualifies for Medicare DSH payments and that has uncompensated care. The payments to each hospital for a fiscal year are based on the hospital’s amount of uncompensated care for a given time period relative to the total amount of uncompensated care for that same time period reported by all hospitals that receive Medicare DSH payments for that fiscal year.

Section 1886(r) of the Act requires that, for FY 2014 and each subsequent fiscal year, a subsection (d) hospital that would otherwise receive DSH payments made under section 1886(d)(5)(F) of the Act receives two separately calculated payments. Specifically, section 1886(r)(1) of the Act provides that the Secretary shall pay to such subsection (d) hospital (including a Pickle hospital) 25 percent of the amount the hospital would have received under section 1886(d)(5)(F) of the Act for DSH payments, which represents the empirically justified amount for such payment, as determined by the MedPAC in its March 2007 Report to Congress. We refer to this payment as the “empirically justified Medicare DSH payment.” In addition to this empirically justified Medicare DSH payment, section 1886(r)(2) of the Act provides that, for FY 2014 and each subsequent fiscal year, the Secretary shall pay to such subsection (d) hospital an additional amount equal to the product of three factors. The first factor is the difference between the aggregate amount of payments that would be made to subsection (d) hospitals under section 1886(d)(5)(F) of the Act if subsection (r) did not apply and the aggregate amount of payments that are made to subsection (d) hospitals under section 1886(r)(1) of the Act for such fiscal year. Therefore, this factor amounts to 75 percent of the payments that would otherwise be made under section 1886(d)(5)(F) of the Act.

The second factor is, for FY 2018 and subsequent fiscal years, 1 minus the percent change in the percent of individuals who are uninsured, as determined by comparing the percent of individuals who were uninsured in 2013 (as estimated by the Secretary, based on data from the Census Bureau or other sources the Secretary determines appropriate, and certified by the Chief Actuary of CMS), and the percent of individuals who were uninsured in the most recent period for which data are available (as so estimated and certified), minus a statutory adjustment of 0.2 percentage point for FYs 2018 and 2019.

The third factor is a percent that, for each subsection (d) hospital, represents the quotient of the amount of uncompensated care for such hospital for a period selected by the Secretary (as estimated by the Secretary, based on appropriate data), including the use of alternative data where the Secretary determines that alternative data are available which are a better proxy for the costs of subsection (d) hospitals for treating the uninsured, and the aggregate amount of uncompensated care for all subsection (d) hospitals that receive a payment under section 1886(r) of the Act. Therefore, this third factor represents a hospital’s uncompensated care amount for a given time period relative to the uncompensated care amount for that same time period for all hospitals that receive Medicare DSH payments in the applicable fiscal year, expressed as a percent.

For each hospital, the product of these three factors represents its additional payment for uncompensated care for the applicable fiscal year. We refer to the additional payment determined by these factors as the “uncompensated care payment.”

Section 1886(r) of the Act applies to FY 2014 and each subsequent fiscal year. In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50620 through 50647) and the FY 2014 IPPS interim final rule with comment period (78 FR 61191 through 61197), we set forth our policies for implementing the required changes to the Medicare DSH payment methodology made by section 3133 of the Affordable Care Act for FY 2014. In those rules, we noted that, because section 1886(r) of the Act modifies the payment required under section 1886(d)(5)(F) of the Act, it affects only the DSH payment under the operating IPPS. It does not revise or replace the capital IPPS DSH payment provided under the regulations at 42 CFR part 412, subpart M, which were established through the exercise of the Secretary’s discretion in implementing the capital IPPS under section 1886(g)(1)(A) of the Act.

Finally, section 1886(r)(3) of the Act provides that there shall be no administrative or judicial review under section 1869, section 1878, or otherwise of any estimate of the Secretary for purposes of determining the factors described in section 1886(r)(2) of the Act or of any period selected by the Secretary for the purpose of determining
those factors. Therefore, there is no administrative or judicial review of the estimates developed for purposes of applying the three factors used to determine uncompensated care payments, or the periods selected in order to develop such estimates.

2. Eligibility for Empirically Justified Medicare DSH Payments and Uncompensated Care Payments

As explained earlier, the payment methodology under section 3133 of the Affordable Care Act applies to “subsection (d) hospitals” that would otherwise receive a DSH payment made under section 1886(d)(5)(F) of the Act. Therefore, hospitals must receive empirically justified Medicare DSH payments in a fiscal year in order to receive an additional Medicare uncompensated care payment for that year. Specifically, section 1886(r)(2) of the Act states that, in addition to the payment made to a subsection (d) hospital under section 1886(r)(1) of the Act, the hospital shall pay to such subsection (d) hospitals an additional amount. Because section 1886(r)(1) of the Act refers to empirically justified Medicare DSH payments, the additional payment under section 1886(r)(2) of the Act is limited to hospitals that receive empirically justified Medicare DSH payments in accordance with section 1886(r)(1) of the Act for the applicable fiscal year.

In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50622) and the FY 2014 IPPS interim final rule with comment period (78 FR 61193), we provided that hospitals that are not eligible to receive empirically justified Medicare DSH payments in a fiscal year will not receive uncompensated care payments for that year. We also specified that we would make a determination concerning eligibility for interim uncompensated care payments based on each hospital’s estimated DSH status for the applicable fiscal year (using the most recent data that are available). We indicated that our final determination on the hospital’s eligibility for uncompensated care payments will be based on the hospital’s actual DSH status at cost report settlement for that payment year. In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50622) and in the rulemaking for subsequent fiscal years, we have specified our policies for several specific classes of hospitals within the scope of section 1886(r) of the Act. For this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to determine eligibility for interim uncompensated care payments based on each hospital’s estimated DSH status for the applicable fiscal year using the best available data, consistent with our proposal discussed in section I.F of the preamble of this proposed rule. For a discussion of the inpatient Provider Specific File, we refer the reader to section II.A.4 of the Addendum of this proposed rule. In this FY 2022 IPPS/LTCH PPS proposed rule, we discuss our specific policies regarding eligibility to receive empirically justified Medicare DSH payments and uncompensated care payments for FY 2022 with respect to the following hospitals:

- **Subsection (a) Puerto Rico hospitals** that are eligible for DSH payments are also eligible to receive empirically justified Medicare DSH payments and uncompensated care payments under the new payment methodology (78 FR 50623 and 79 FR 50006).
- **Maryland hospitals** are not eligible to receive empirically justified Medicare DSH payments and uncompensated care payments under the payment methodology of section 1886(r) of the Act because they are not paid under the IPPS. As explained in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41402 through 41403), CMS and the State have entered into an agreement to govern payments to Maryland hospitals under a new payment model, the Maryland Total Cost of Care (TCOC) Model, which began on January 1, 2019. Under the Maryland TCOC Model, Maryland hospitals will not be paid under the IPPS in FY 2022, and will be ineligible to receive empirically justified Medicare DSH payments and uncompensated care payments under section 1886(r) of the Act.
- **Sole community hospitals (SCHs)** that are paid under their hospital-specific rate are not eligible for Medicare DSH payments. SCHs that are paid under the IPPS Federal rate receive interim payments based on what we estimate and project their DSH status to be prior to the beginning of the Federal fiscal year (based on the best available data at that time) subject to settlement through the cost report, and if they receive interim empirically justified Medicare DSH payments in a fiscal year, they also will receive interim uncompensated care payments for that fiscal year on a per discharge basis, subject as well to settlement through the cost report. Final eligibility determinations will be made at the end of the cost reporting period at settlement, and both interim empirically justified Medicare DSH payments and uncompensated care payments will be adjusted accordingly (78 FR 50624 and 79 FR 50007).
- **Medically independent, small rural hospitals (MDHs)** are paid based on the IPPS Federal rate or, if higher, the IPPS Federal rate plus 75 percent of the amount by which the Federal rate is exceeded by the updated hospital-specific rate from certain specified base years (76 FR 51684). The IPPS Federal rate that is used in the MDH payment methodology is the same IPPS Federal rate that is used in the SCH payment methodology. Section 50205 of the Bipartisan Budget Act of 2018 (Pub. L. 115–123), enacted on February 9, 2018, extended the MDH program for discharges on or after October 1, 2017, through September 30, 2022. Because MDHs are paid based on the IPPS Federal rate, they continue to be eligible to receive empirically justified Medicare DSH payments and uncompensated care payments if their DPP is at least 15 percent, and we apply the same process to determine MDHs’ eligibility for empirically justified Medicare DSH and uncompensated care payments as we do for all other IPPS hospitals. Due to the extension of the MDH program, MDHs will continue to be paid based on the IPPS Federal rate or, if higher, the IPPS Federal rate plus 75 percent of the amount by which the Federal rate is exceeded by the updated hospital-specific rate from certain specified base years. Accordingly, we are proposing to continue to make a determination concerning eligibility for interim uncompensated care payments based on each hospital’s estimated DSH status for the applicable fiscal year (using the best available data). Our final determination on the hospital’s eligibility for uncompensated care payments will be based on the hospital’s actual DSH status at cost report settlement for that payment year. In addition, as we do for all IPPS hospitals, we will calculate a Factor 3 and an uncompensated care payment amount for all MDHs, regardless of whether they are projected to be eligible for Medicare DSH payments during the fiscal year, but the denominator of Factor 3 of the uncompensated care payment methodology will be based only on the uncompensated care data from the hospitals that we have projected to be eligible for Medicare DSH payments during the fiscal year.
- **IPPS hospitals that elect to participate in the Bundled Payments for Care Improvement Advanced (BPCI Advanced) model starting October 1, 2018,** will continue to be paid under the IPPS and, therefore, are eligible to receive empirically justified Medicare DSH payments and uncompensated care payments. For further information regarding the BPCI Advanced model, we refer readers to the CMS website at:
Empirically Justified Medicare DSH Payments

As we have discussed earlier, section 1886(r)(1) of the Act requires the Secretary to pay 25 percent of the amount of the Medicare DSH payment that would otherwise be made under section 1886(d)(5)(F) of the Act to a subsection (d) hospital. Because section 1886(r)(1) of the Act merely requires the program to pay a designated percentage of these payments, without revising the criteria governing eligibility for DSH payments or the underlying payment methodology, we stated in the FY 2014 IPPS/LTCH PPS final rule that we did not believe that it was necessary to develop any new operational mechanisms for making such payments.

Therefore, in the FY 2014 IPPS/LTCH PPS final rule (78 FR 50626), we implemented this provision by advising the Medicare Administrative Contractors (MACs) to simply adjust the interim claim payments to the requisite 25 percent of what would have otherwise been paid. We also made corresponding changes to the hospital cost report so that these empirically justified Medicare DSH payments can be settled at the appropriate level at the time of cost report settlement. We provided more detailed operational instructions and cost report instructions following issuance of the FY 2014 IPPS/LTCH PPS final rule that are available on the CMS website at: http://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/2014-Transmittals-Items/85F240.html.

Uncompensated Care Payments

As we discussed earlier, section 1886(r)(2) of the Act provides that, for each eligible hospital in FY 2014 and subsequent years, the uncompensated care payment is the product of three factors. These three factors represent our estimate of 75 percent of the amount of Medicare DSH payments that would otherwise have been paid, an adjustment to this amount for the change in the national rate of uninsurance compared to the rate of uninsurance in 2013, and each eligible hospital’s estimated uncompensated care amount relative to the estimated uncompensated care amount for all eligible hospitals. In this section of this proposed rule, we discuss the data sources and methodologies for computing each of these factors, our final policies for FYs 2014 through 2021, and our proposed policies for FY 2022.

a. Proposed Calculation of Factor 1 for FY 2022

Section 1886(r)(2)(A) of the Act establishes Factor 1 in the calculation of the uncompensated care payment. Section 1886(r)(2)(A) of the Act states that this factor is equal to the difference between: (1) The aggregate amount of payments that would be made to subsection (d) hospitals under section 1886(d)(5)(F) of the Act if section 1886(r) of the Act did not apply for such fiscal year (as estimated by the Secretary); and (2) the aggregate amount of payments that are made to subsection (d) hospitals under section 1886(r)(1) of the Act for such fiscal year (as so estimated). Therefore, section 1886(r)(2)(A)(i) of the Act represents the estimated Medicare DSH payments that would have been made under section 1886(d)(5)(F) of the Act if section 1886(r) of the Act did not apply for such fiscal year. Under a prospective payment system, we would not know the precise aggregate Medicare DSH payment amount that would be paid for a Federal fiscal year until cost report settlement for all IPPS hospitals is completed, which occurs several years after the end of the Federal fiscal year. Therefore, section 1886(r)(2)(A)(i) of the Act provides authority to estimate this amount, by specifying that, for each fiscal year to which the provision applies, such amount is to be estimated by the Secretary. Similarly, section 1886(r)(2)(A)(ii) of the Act represents the estimated empirically justified Medicare DSH payments to be made in a fiscal year, as prescribed under section 1886(r)(1) of the Act. Again, section 1886(r)(2)(A)(ii) of the Act provides authority to estimate this amount.

Therefore, Factor 1 is the difference between our estimates of: (1) The amount that would have been paid in Medicare DSH payments for the fiscal year, in the absence of the new payment provision; and (2) the amount of empirically justified Medicare DSH payments that are made for the fiscal year, which takes into account the requirement to pay 25 percent of what would have otherwise been paid under section 1886(d)(5)(F) of the Act. In other words, this factor represents our estimate of 75 percent (100 percent minus 25 percent) of our estimate of Medicare DSH payments that would otherwise be made, in the absence of section 1886(r) of the Act, for the fiscal year.

As we did for FY 2021, in this FY 2022 IPPS/LTCH PPS proposed rule, in order to determine Factor 1 in the uncompensated care payment formula for FY 2022, we are proposing to
continue the policy established in the FY 2014 IPPS/LTCH PPS final rule (78 FR 50628 through 50630) and in the FY 2014 IPPS interim final rule with comment period (78 FR 61194) of determining Factor 1 by developing estimates of both the aggregate amount of Medicare DSH payments that would be made in the absence of section 1886(r)(1) of the Act and the aggregate amount of empirically justified Medicare DSH payments to hospitals under section 1886(r)(1) of the Act. Consistent with the policy that has applied in previous years, these estimates will not be revised or updated subsequent to the publication of our final projections in the FY 2022 IPPS/LTCH PPS final rule. Therefore, in order to determine the two elements of proposed Factor 1 for FY 2022 (Medicare DSH payments prior to the application of section 1886(r)(1) of the Act, and empirically justified Medicare DSH payments after application of section 1886(r)(1) of the Act), for this proposed rule, we used the most recently available projections of Medicare DSH payments for the fiscal year, as calculated by CMS’ Office of the Actuary (OACT) using the most recently filed Medicare hospital cost reports with Medicare DSH payment information and the most recent Medicare DSH patient percentages and Medicare DSH payment adjustments provided in the IPPS Impact File. The determination of the amount of DSH payments is partially based on OACT’s Part A benefits projection model. One of the results of this model is inpatient hospital spending. In order for DSH payments require projections for expected increases in utilization and case-mix. The assumptions that were used in making these projections and the resulting estimates of DSH payments for FY 2019 through FY 2022 are discussed in the table titled “Factors Applied for FY 2019 through FY 2022 to Estimate Medicare DSH Expenditures Using FY 2018 Baseline.”

For purposes of calculating Factor 1 and modeling the impact of this FY 2022 projected DSH amount for FY 2022 final rule, we used the Office of the Actuary’s January 2021 Medicare DSH estimates, which were based on data from the September 2020 update of the Medicare Hospital Cost Report Information System (HCRIS) and the FY 2021 IPPS/LTCH PPS final rule IPPS Impact File, published in conjunction with the publication of the FY 2021 IPPS/LTCH PPS final rule. Because SCHs that are projected to be paid under their hospital-specific rate are excluded from the application of section 1886(r) of the Act, these hospitals also were excluded from the January 2021 Medicare DSH estimates. Furthermore, because section 1886(r) of the Act specifies that the uncompensated care payment is in addition to the empirically justified Medicare DSH payment (25 percent of DSH payments that would be made without regard to section 1886(r) of the Act), Maryland hospitals, which are not eligible to receive DSH payments, were also excluded from the Office of the Actuary’s January 2021 Medicare DSH estimates. The 27 hospitals that are anticipated to participate in the Rural Community Hospital Demonstration Program in FY 2022 were also excluded from these estimates, because under the payment methodology that applies during the third 5-year extension period, these hospitals are not eligible to receive empirically justified Medicare DSH payments or interim and final uncompensated care payments.

For this proposed rule, using the data sources as previously discussed, the Office of the Actuary’s January 2021 estimate of Medicare DSH payments for FY 2022 without regard to the application of section 1886(r)(1) of the Act, is approximately $14,098 billion. Therefore, also based on the January 2021 estimate, the estimate of empirically justified Medicare DSH payments for FY 2022, with the application of section 1886(r)(1) of the Act, is approximately $3.524 billion (or 25 percent of the total amount of estimated Medicare DSH payments for FY 2022). Under § 412.106(g)(1)(i) of the regulations, Factor 1 is the difference between these two OACT estimates. Therefore, in this proposed rule, we are proposing that Factor 1 for FY 2022 would be $10,573,368,841.28, which is equal to 75 percent of the total amount of estimated Medicare DSH payments for FY 2021 ($14,097,825,121.71 minus $3,524,456,280.43). We note that consistent with our approach in previous rulemakings, OACT intends to use more recent data that may become available for purposes of projecting the final Factor 1 estimates for the FY 2022 IPPS/LTCH PPS final rule.

The Factor 1 estimates for proposed rules are generally consistent with the economic assumptions and actuarial analysis used to develop the President’s Budget estimates under current law, and the Factor 1 estimates for the final rule are generally consistent with those used for the Midsession Review of the President’s Budget. As we have in the past, for additional information on the development of the President’s Budget, we refer readers to the Office of Management and Budget website at: https://www预算和 vandalism. Consistent with historical practice, we expect that the Midsession Review will have updated economic assumptions and actuarial analysis, which would be used for the development of Factor 1 estimates in the final rule.

For a general overview of the principal steps involved in projecting future inpatient costs and utilization, we refer readers to the ‘‘2020 Annual Report of the Boards of Trustees of the Federal Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds’’ available on the CMS website at: https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/ReportsTrustFunds/index.html?redirect=/reportstrustfunds/under ‘‘Downloads.’’ We note that the annual reports of the Medicare Boards of Trustees to Congress represent the Federal Government’s official evaluation of the financial status of the Medicare Program. The actuarial projections contained in these reports are based on numerous assumptions regarding future trends in program enrollment, utilization and costs of health care services covered by Medicare, as well as other factors affecting program expenditures. In addition, although the methods used to estimate future costs based on these assumptions are complex, they are subject to periodic review by independent experts to ensure their validity and reasonableness.


In this proposed rule, we include information regarding the data sources, methods, and assumptions employed by the actuaries in determining OACT’s estimate of Factor 1. In summary, we indicate the historical HCRIS data update OACT used to identify Medicare DSH payments, we explain that the most recent Medicare DSH payment adjustments provided in the IPPS Impact File were used, and we provide the components of all the update factors that were applied to the historical data to estimate the Medicare DSH payments for the upcoming fiscal year, along with the associated rationale and assumptions. This discussion also includes a description of the ‘‘Other’’ and ‘‘Discharges’’ assumptions, and also provides additional information regarding how we address the Medicaid and CHIP expansion.

The Office of the Actuary’s estimates for FY 2022 for this proposed rule began
In this table, the discharges column shows the changes in the number of Medicare fee-for-service (FFS) inpatient hospital discharges. The figures for FY 2019 and FY 2020 are based on Medicare claims data that have been adjusted by a completion factor to account for incomplete claims data. The discharge figure for FY 2021 is based on preliminary data. The discharge figure for FY 2022 is an assumption based on recent trends recovering back to the long-term trend and assumptions related to how many beneficiaries will be enrolled in Medicare Advantage (MA) plans. The discharge figures for FY 2020 to FY 2022 reflect the estimated impact of the COVID–19 pandemic. The case-mix column shows the estimated change in case-mix for IPPS hospitals. The case-mix figures for FY 2019 and FY 2020 are based on actual data adjusted by a completion factor. The case-mix figure for FY 2021 is based on preliminary data. The case-mix factor figures for FY 2020 and FY 2021 have been adjusted for the estimated impact of the COVID–19 pandemic. The FY 2022 increase is an estimate based on the recommendation of the 2010–2011 Medicare Technical Review Panel. The “Other” column shows the increase in other factors that contribute to the Medicare DSH estimates. These factors include the difference between the total inpatient hospital discharges and the IPPS discharges, and various adjustments to the payment rates that have been included over the years but are not reflected in the other columns (such as the change in rates for the 2-midnight stay policy and the 20 percent add-on for COVID–19 discharges). In addition, the “Other” column includes a factor for the Medicaid expansion due to the Affordable Care Act. The factor for Medicaid expansion was developed using public information and statements for each State regarding its intent to implement the expansion. Based on the information available at the time of development of this proposed rule, it is assumed that approximately 55 percent of all individuals who were potentially newly eligible Medicaid enrollees in 2018, 2019, and 2020 resided in States that had elected to expand Medicaid eligibility, and approximately 60 percent of all individuals who were potentially newly eligible Medicaid enrollees in 2021 and thereafter, resided in States that had elected to expand Medicaid eligibility. In the future, these assumptions may change based on actual participation by States. The “Other” column also includes the estimated impacts on Medicaid enrollment from the COVID–19 pandemic. We note that, based on the most recent available data, actuaries have assumed that the new Medicaid enrollees are healthier than the average Medicaid recipient and, therefore, use fewer hospital services. Specifically, based on the most recent available data, OACT assumed per capita spending for Medicaid beneficiaries who enrolled due to the expansion to be 78 percent of the average per capita expenditures for a pre-expansion Medicaid beneficiary due to the better health of these beneficiaries. We note that, this is an updated assumption based on more recent data compared to the data available at the time of the FY 2021 IPPS/LTCH PPS final rule. This same assumption was used for the new Medicaid beneficiaries who enrolled in 2020 and thereafter due to the COVID–19 pandemic. This assumption is consistent with recent internal estimates of Medicaid per capita spending pre-expansion and post-expansion.

The following table shows the factors that are included in the “Update” column of the previous table:

### Factors Applied for FY 2019 through FY 2022 to Estimate Medicare DSH Expenditures Using FY 2018 Baseline

<table>
<thead>
<tr>
<th>FY</th>
<th>Update</th>
<th>Discharges</th>
<th>Case-Mix</th>
<th>Other</th>
<th>Total</th>
<th>Estimated DSH Payment (in billions)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>1.0185</td>
<td>0.97</td>
<td>1.009</td>
<td>1.0179</td>
<td>1.0147</td>
<td>14.136</td>
</tr>
<tr>
<td>2020</td>
<td>1.031</td>
<td>0.853</td>
<td>1.038</td>
<td>1.0023</td>
<td>0.9150</td>
<td>12.933</td>
</tr>
<tr>
<td>2021</td>
<td>1.029</td>
<td>0.968</td>
<td>0.998</td>
<td>0.9754</td>
<td>0.9696</td>
<td>12.541</td>
</tr>
<tr>
<td>2022</td>
<td>1.028</td>
<td>1.075</td>
<td>1.005</td>
<td>1.0122</td>
<td>1.1242</td>
<td>14.098</td>
</tr>
</tbody>
</table>

*Rounded.
Section 1886(r)(2)(B) of the Act establishes Factor 2 in the calculation of the uncompensated care payment. Section 1886(r)(2)(B)(ii) of the Act provides that, for FY 2018 and subsequent fiscal years, the second factor is 1 minus the percent change in the percent of individuals who are uninsured, as determined by comparing the percent of individuals who were uninsured in 2013 (as estimated by the Secretary, based on data from the Census Bureau or other sources) and the percent of individuals who were uninsured in the most recent period for which data are available (as so estimated and certified), minus 0.2 percentage point for FYs 2018 and 2019. In FY 2020 and subsequent fiscal years, there is no longer a reduction. We note that, unlike section 1886(r)(2)(B)(i) of the Act, which governed the calculation of Factor 2 for FYs 2014, 2015, 2016, and 2017, section 1886(r)(2)(B)(ii) of the Act permits the use of a data source other than the CBO estimates to determine the percent change in the rate of uninsurance beginning in FY 2018. In addition, for FY 2018 and subsequent years, the statute does not require that the estimate of the percent of individuals who are uninsured be limited to individuals who are under 65 years of age.

As we discussed in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38197), in our analysis of a potential data source for the rate of uninsurance for purposes of computing Factor 2 in FY 2018, we considered the following: (1) The extent to which the source accounted for the full U.S. population; (2) the extent to which the source comprehensively accounted for both public and private health insurance coverage in deriving its estimates of the number of uninsured; (3) the extent to which the source utilized data from the Census Bureau; (4) the timeliness of the estimates; (5) the continuity of the estimates over time; (6) the accuracy of the estimates; and (7) the availability of projections (including the availability of projections using an established estimation methodology that would allow for calculation of the rate of uninsurance for the applicable Federal fiscal year). As we explained in the FY 2018 IPPS/LTCH PPS final rule, these considerations are consistent with the statutory requirement that this estimate be based on data from the Census Bureau or other sources the Secretary determines appropriate and help to ensure the data source will provide reasonable estimates for the rate of uninsurance that are available in conjunction with the IPPS rulemaking cycle. We are proposing to use a methodology similar to the one that was used in FY 2018 through FY 2021 to determine Factor 2 for FY 2022.

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38197 and 38198), we explained that we determined the source that, on balance, best meets all of these considerations is the uninsured estimates produced by OACT as part of the development of the National Health Expenditure Accounts (NHEA). The NHEA represents the government’s official estimates of economic activity (spending) within the health sector. The information contained in the NHEA has been used to study numerous topics related to the health care sector, including, but not limited to, changes in the amount and cost of health services purchased and the payers or programs that provide or purchase these services; the economic causal factors at work in the health sector; the impact of policy changes, including major health reform; and comparisons to other countries’ health spending. Of relevance to the determination of Factor 2 is that the comprehensive and integrated structure of the NHEA creates an ideal tool for evaluating changes to the health care system, such as the mix of the insured and uninsured, because this information is integral to the well-established NHEA methodology. A full description of the methodology used to develop the NHEA is available on the CMS website at: https://www.cms.gov/files/document/definitions-sources-and-methods.pdf.

The NHEA estimates of U.S. population reflect the Census Bureau’s definition of the resident-based population, which includes all people who usually reside in the 50 States or the District of Columbia, but excludes residents living in Puerto Rico and areas under U.S. sovereignty, members of the U.S. Armed Forces overseas, and U.S. citizens whose usual place of residence is outside of the U.S., plus a small (typically less than 0.2 percent of population) adjustment to reflect Census undercounts. For fiscal years 2014 through 2017, the estimates for Factor 2 were made using the CBO’s uninsured population estimates for the under 65 population. For FY 2018 and subsequent years, the statute does not restrict the estimate to the measurement of the percent of individuals under the age of 65 who are uninsured.

Accordingly, as we explained in the FY 2018 IPPS/LTCH PPS proposed and final rules, we believe it is appropriate to use an estimate that reflects the rate of uninsurance in the U.S. across all age groups. In addition, we continue to believe that a resident-based population estimate more fully reflects the levels of uninsurance in the United States that influence uncompensated care for hospitals than an estimate that reflects only legal residents. The NHEA estimates of uninsurance are for the total U.S. population (all ages) and not by specific age cohort, such as the population under the age of 65.

The NHEA includes comprehensive enrollment estimates for total private

<table>
<thead>
<tr>
<th>FY</th>
<th>Market Basket Percentage</th>
<th>Affordable Care Act Payment Reductions</th>
<th>Multifactor Productivity Adjustment</th>
<th>Documentation and Coding</th>
<th>Total Update Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>2.9</td>
<td>-0.75</td>
<td>-0.8</td>
<td>0.5</td>
<td>1.85</td>
</tr>
<tr>
<td>2020</td>
<td>3.0</td>
<td>0</td>
<td>-0.4</td>
<td>0.5</td>
<td>3.1</td>
</tr>
<tr>
<td>2021</td>
<td>2.4</td>
<td>0</td>
<td>0</td>
<td>0.5</td>
<td>2.9</td>
</tr>
<tr>
<td>2022</td>
<td>2.5</td>
<td>-0.2</td>
<td>0.5</td>
<td></td>
<td>2.8</td>
</tr>
</tbody>
</table>

Note: All numbers are from the inpatient hospital updates for the applicable year, except for the FY 2022 percentages, which are based on the most recent forecast. We refer readers to section V.A. of the preamble of this proposed rule for a complete discussion of the proposed changes in the inpatient hospital update for FY 2022.
health insurance (PHI) (including direct and employer-sponsored plans), Medicare, Medicaid, the Children’s Health Insurance Program (CHIP), and other public programs, and estimates of the number of individuals who are uninsured. Estimates of total PHI enrollment are available for 1960 through 2019, estimates of Medicaid, Medicare, and CHIP enrollment are available for the length of the respective programs, and all other estimates (including the more detailed estimates of direct-purchased and employer-sponsored insurance) are available for 1987 through 2019. The NHEA data are publicly available on the CMS website at: https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/index.html. In order to compute Factor 2, the first metric that is needed is the proportion of the total U.S. population that was uninsured in 2013. In developing the estimates for the NHEA, OACT’s methodology included using the number of uninsured individuals for 1987 through 2009 based on the enhanced Current Population Survey (CPS) from the State Health Access Data Assistance Center (SHADAC). The CPS, sponsored jointly by the U.S. Census Bureau and the U.S. Bureau of Labor Statistics (BLS), is the primary source of labor force statistics for the population of the United States. (We refer readers to the website at: http://www.census.gov/programs-surveys/cps.html.) The enhanced CPS, available from SHADAC (available at: http://datacenter.shadac.org) accounts for changes in the CPS methodology over time. OACT further adjusts the enhanced CPS for an estimated undercount of Medicaid enrollees (a population that is often not fully captured in surveys that include Medicaid enrollees due to a perceived stigma associated with being enrolled in the Medicaid program or confusion about the source of their health insurance).

To estimate the number of uninsured individuals for 2010 through 2019, OACT extrapolates from the 2009 CPS data through 2018 using data from the National Health Interview Survey (NHIS) and then, for 2019, OACT extrapolates using the American Community Survey (ACS). In deriving the number of uninsured for the most recent release of the national health expenditure accounts, there were two concerns related to the data sources typically used by the NHIS. The NHIS underwent a redesign in 2019 and cautioned its users against comparing the year-over-year trend from 2018–2019 as a result. Also, the Census Bureau indicated that it experienced data collection issues for the 2019 CPS, which may have been affected by the COVID–19 pandemic, and similarly cautioned its users to be aware of the potential impact on trend analysis between 2018 and 2019. Consequently, the ACS data were used for estimating 2019. The NHIS is one of the major data collection programs of the National Center for Health Statistics (NCHS), which is part of the Centers for Disease Control and Prevention (CDC). For both the NHIS and ACS, the U.S. Census Bureau is the data collection agent. The results from these data sources have been instrumental over the years in providing data to track health status, health care access, and progress toward achieving national health objectives. For further information regarding the NHIS, we refer readers to the CDC website at: https://www.cdc.gov/nchs/nhis/index.htm. For further information regarding the ACS, we refer readers to the Census Bureau’s website at: https://www.census.gov/programs-surveys/acs.

The next metrics needed to compute Factor 2 are projections of the rate of uninsurance for both CY 2021 and CY 2022. On an annual basis, OACT projects enrollment and spending trends for the coming 10-year period. Those projections use the latest NHEA historical data, available at the time of their construction. The NHEA projection methodology accounts for expected changes in enrollment across all of the categories of insurance coverage previously listed. The sources for projected growth rates in enrollment for Medicare, Medicaid, and CHIP include the latest Medicare Trustees Report, the Medicaid Actuarial Report, or other updated estimates as produced by OACT. Projected rates of growth in enrollment for private health insurance and the uninsured are based largely on OACT’s econometric models, which rely on the set of macroeconomic assumptions underlying the latest Medicare Trustees Report. Greater detail can be found in OACT’s import titled “Projections of National Health Expenditure: Methodology and Model Specification,” which is available on the CMS website at: https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/Downloads/ProjectionsMethodology.pdf. The use of data from the NHEA to estimate the rate of uninsurance is consistent with the statute and meets the criteria we have identified for determining the appropriate data source. Section 1886(r)(2)(B)(ii) of the Act instructs the Secretary to estimate the rate of uninsurance for purposes of Factor 2 based on data from the Census Bureau or other sources the Secretary determines appropriate. The NHEA utilizes data from the Census Bureau; the estimates are available in time for the IPPS rulemaking cycle; the estimates are produced by OACT on an annual basis and are expected to continue to be produced for the foreseeable future; and projections are available for calendar year time periods that span the upcoming fiscal year. Timeliness and continuity are important considerations because of our need to be able to update this estimate annually. Accuracy is also a very important consideration and, all things being equal, we would choose the most accurate data source that sufficiently meets our other criteria.

We refer readers to OACT’s Memorandum on Certification of Rates of Uninsured prepared for this FY 2022 IPPS/LTC proposed rule for further details on the methodology and assumptions that were used in the projection of the uninsurance rate.937

(2) Proposed Factor 2 for FY 2022

Using these data sources and the previously described methodologies, OACT estimates that the uninsured rate for the historical, baseline year of 2013 was 14 percent and for CYs 2021 and 2022 is 10.2 percent and 10.1 percent, respectively. The projected rates of uninsurance for CY 2021 and 2022 reflect the estimated impact of the COVID–19 pandemic. As required by section 1886(r)(2)(B)(ii) of the Act, the Chief Actuary of CMS has certified these estimates.

As with the CBO estimates on which we based Factor 2 for fiscal years before FY 2018, the NHEA estimates are for a calendar year. Under the approach originally adopted in the FY 2014 IPPS/LTCH PPS final rule, we have used a weighted average approach to project the rate of uninsurance for each fiscal year. We continue to believe that, in order to estimate the rate of uninsurance during a fiscal year accurately, Factor 2 should reflect the estimated rate of uninsurance that hospitals will experience during the fiscal year, rather than the rate of uninsurance during only one of the calendar years that the fiscal year spans. Accordingly, we are proposing to continue to apply the weighted average approach used in past fiscal years in order to estimate the rate of uninsurance for FY 2022.

937 OACT Memorandum on Certification of Rates of Uninsured. March 12, 2021. Available at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/dsh.html.
OACT has certified the estimate of the rate of uninsurance for FY 2022 determined using this weighted average approach to be reasonable and appropriate for purposes of section 1886(r)(2)(B)(ii) of the Act. We may also consider the use of more recent data that may become available for purposes of estimating the rates of uninsurance used in the calculation of the final Factor 2 for FY 2022. We note that any potential impacts from the American Rescue Plan Act are not reflected in the following estimates, due to the timing for the development and publication of the FY 2022 IPPS/LTCH proposed rule.

The calculation of the proposed Factor 2 for FY 2022 is as follows:

- Percent of individuals without insurance for CY 2013: 14 percent.
- Percent of individuals without insurance for CY 2021: 10.2 percent.
- Percent of individuals without insurance for CY 2022: 10.1 percent.

The proposed Factor 2 for FY 2022 is as follows:

\[
\text{Factor } 2 = 1 - \left( (0.0101 - 0.14) / 0.14 \right) = 1 - 0.2786 = 0.7214 \quad (72.14 \text{ percent}).
\]

For FY 2020 and subsequent fiscal years, section 1886(r)(2)(B)(ii) of the Act no longer includes any reduction to the previous calculation in order to determine Factor 2. Therefore, we are proposing that Factor 2 for FY 2022 would be 72.14 percent.

The proposed FY 2022 uncompensated care amount is $10,573,368,841.28 * 0.7214 = $7,627,628,282.10.

We are inviting public comments on the proposed Factor 2 for FY 2022.

c. Calculation of Proposed Factor 3 for FY 2022

(1) General Background

Section 1886(r)(2)(C) of the Act defines Factor 3 in the calculation of the uncompensated care payment. As we have discussed earlier, section 1886(r)(2)(C) of the Act states that Factor 3 is equal to the percent, for each subsection (d) hospital, that represents the quotient of:

1. The amount of uncompensated care for such hospital for a period selected by the Secretary (as estimated by the Secretary, based on appropriate data (including, in the case where the Secretary determines alternative data are available that are a better proxy for the costs of subsection (d) hospitals for treating the uninsured, the use of such alternative data)); and
2. The aggregate amount of uncompensated care for all subsection (d) hospitals that receive a payment under section 1886(r) of the Act for such period (as so estimated, based on such data).

Therefore, Factor 3 is a hospital-specific value that expresses the proportion of the estimated uncompensated care amount for each subsection (d) hospital and each subsection (d) Puerto Rico hospital with the potential to receive Medicare DSH payments relative to the estimated uncompensated care amount for all hospitals estimated to receive Medicare DSH payments in the fiscal year for which the uncompensated care payment is to be made. Factor 3 is applied to the product of Factor 1 and Factor 2 to determine the amount of the uncompensated care payment that each eligible hospital will receive for FY 2014 and subsequent fiscal years. In order to implement the statutory requirements for this factor of the uncompensated care payment formula, it was necessary to determine:

1. The definition of uncompensated care or, in other words, the specific items that are to be included in the numerator (that is, the estimated uncompensated care amount for an individual hospital) and the denominator (that is, the estimated uncompensated care amount for all hospitals estimated to receive Medicare DSH payments in the applicable fiscal year); and
2. The data source(s) for the estimated uncompensated care amount; and
3. The timing and manner of computing the quotient for each hospital estimated to receive Medicare DSH payments. The statute instructs the Secretary to estimate the amounts of uncompensated care for a period based on appropriate data. In addition, we note that the statute permits the Secretary to use alternative data in the case where the Secretary determines that such alternative data are available that are a better proxy for the costs of subsection (d) hospitals for treating individuals who are uninsured.

In the course of considering how to determine Factor 3 during the rulemaking process for FY 2014, the first year for which section 1886(r) of the Act was in effect, we considered defining the amount of uncompensated care for a hospital as the uncompensated care costs of that hospital and determined that Worksheet S–10 of the Medicare cost report would potentially provide the most complete data regarding uncompensated care costs for Medicare hospitals. However, because of concerns regarding variations in the data reported on Worksheet S–10 and the completeness of these data, we did not use Worksheet S–10 data to determine Factor 3 for FY 2014, or for FYs 2015, 2016, or 2017. Instead, we used alternative data on the utilization of insured low-income patients, as measured by patient days, which we believed would be a better proxy for the costs of hospitals in treating the uninsured and therefore appropriate to use in calculating Factor 3 for these years. Of particular importance in our decision to use proxy data was the relative newness of Worksheet S–10, which went into effect on May 1, 2010. At the time of the rulemaking for FY 2014, the most recent available cost reports would have been from FYs 2010 and 2011 and submitted on or after May 1, 2010, when the new Worksheet S–10 went into effect. However, we indicated our belief that Worksheet S–10 could ultimately serve as an appropriate source of more direct data regarding uncompensated care costs for purposes of determining Factor 3 once hospitals were submitting more accurate and consistent data through this reporting mechanism.

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38202), we stated that we could no longer conclude that alternative data to the Worksheet S–10 are available for FY 2014 that are a better proxy for the costs of subsection (d) hospitals for treating individuals who are uninsured. Hospitals were on notice as of FY 2014 that Worksheet S–10 could eventually become the data source for CMS to calculate uncompensated care payments. Furthermore, hospitals’ cost reports from FY 2014 had been publicly available for some time, and CMS had analyses of Worksheet S–10, conducted both internally and by stakeholders, demonstrating that Worksheet S–10 accuracy had improved over time. Analyses performed by MedPAC had already shown that the correlation between audited uncompensated care data from 2009 and the data from the FY 2011 Worksheet S–10 was over 0.80, as compared to a correlation of approximately 0.50 between the audited uncompensated care data and 2011.
Medicare SSI and Medicaid days. Based on this analysis, MedPAC concluded that use of Worksheet S–10 data was already better than using Medicare SSI and Medicaid days as a proxy for uncompensated care costs, and that the data reported on Worksheet S–10 would improve over time as the data are actually used to make payments (81 FR 25090). In addition, a 2007 MedPAC analysis of data from the Government Accountability Office (GAO) and the American Hospital Association (AHA) had suggested that Medicaid days and low-income Medicare days are not an accurate proxy for uncompensated care costs (80 FR 49525).

Subsequent analyses from Dobson/DaVanzo, originally commissioned by CMS for the FY 2014 rulemaking and updated in later years, compared Worksheet S–10 and IRS Form 990 data and assessed the correlation in Factor 3s derived from each of the data sources. Our analyses on balance led us to believe that we had reached a tipping point in FY 2018 with respect to the use of the Worksheet S–10 data. We refer readers to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38201 through 38203) for a complete discussion of these analyses. We found further evidence for this tipping point when we examined changes to the FY 2014 Worksheet S–10 data submitted by hospitals following the publication of the FY 2017 IPPS/LTCH PPS final rule.

We also recognized commenters’ concerns that, in continuing to use Medicaid days as part of the proxy for uncompensated care, it would be possible for hospitals in States that choose to expand Medicaid to receive higher uncompensated care payments because they may have more Medicaid patient days than hospitals in a State that does not choose to expand Medicaid. Because the earliest Medicaid expansions under the Affordable Care Act began in 2014, the 2011, 2012, and 2013 Medicaid days used to calculate uncompensated care payments in FYs 2015, 2016, and 2017 are the latest available data on Medicaid utilization that do not reflect the effects of these Medicaid expansions. Accordingly, if we had used only low-income insured days to estimate uncompensated care for FY 2018, we would have needed to hold the time period of these data constant and use data on Medicaid days from 2011, 2012, and 2013 in order to avoid the risk of any redistributive effects arising from the decision to expand Medicaid in certain States. In the FY 2018 IPPS/LTCH PPS final rule, we finalized methodology under which we calculated Factor 3 for all eligible hospitals, with the exception of Puerto Rico hospitals and Indian Health Service (IHS) and Tribal hospitals, using Worksheet S–10 data from FY 2014 cost reports in conjunction with low-income insured days proxy data based on Medicaid days and SSI days. The time period for the Medicaid days data was FY 2012 and FY 2013 cost reports (82 FR 38208 through 38213).

As we stated in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41414), with the additional steps we had taken to ensure the accuracy and consistency of the data reported on Worksheet S–10 since the publication of the FY 2018 IPPS/LTCH PPS final rule, we continued to believe that we could no longer conclude that alternative data to the Worksheet S–10 are currently available for FY 2014 that are a better proxy for the costs of subsection (d) hospitals for treating individuals who are uninsured. Similarly, the actions that we have taken to improve the accuracy and consistency of the Worksheet S–10 data, including the opportunity for hospitals to resubmit Worksheet S–10 data for FY 2015, led us to conclude that there were no alternative data to the Worksheet S–10 data currently available for FY 2015 that would be a better proxy for the costs of subsection (d) hospitals for treating uninsured individuals. Accordingly, in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41428), we advanced the time period of the data used in the calculation of Factor 3 forward by 1 year and used Worksheet S–10 data from FY 2014 and FY 2015 cost reports in combination with the low-income insured days proxy data for FY 2013 to determine Factor 3 for FY 2019. We note that, as discussed in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42366), the use of three years of data to determine Factor 3 for FY 2018 and FY 2019 had the effect of smoothing the transition from the use of low-income insured days to the use of Worksheet S–10 data. As discussed in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41424), we received overwhelming feedback from commenters emphasizing the importance of audits in ensuring the accuracy and consistency of data reported on the Worksheet S–10. We began auditing the Worksheet S–10 data for selected hospitals in the Fall of 2018 so that the audited uncompensated care data from these hospitals would be available in time for use in the FY 2020 IPPS/LTCH PPS proposed rule. The audits began with 1 year of data (that is, FY 2015 cost reports) in order to maximize the available audit resources and not spread available audit resources over multiple years, potentially diluting their effectiveness. We chose to begin the audits with the FY 2015 cost reports primarily because this was the most recent year of data that we had broadly allowed to be resubmitted by hospitals, and many hospitals had already made considerable efforts to amend their FY 2015 reports in preparation for the FY 2019 rulemaking. We also considered that we had used the FY 2015 data as part of the calculation of the FY 2019 uncompensated care payments; therefore, the data had been subject to public comment and scrutiny.

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42368), we finalized our proposal to use a single year of Worksheet S–10 cost report data from FY 2015 in the methodology for determining Factor 3 for FY 2020. Although some commenters expressed support for the alternative policy of using the FY 2017 Worksheet S–10 data to determine each hospital’s share of uncompensated care costs in FY 2020, given the feedback from commenters in response to both the FY 2019 and FY 2020 IPPS/LTCH PPS proposed rules, emphasizing the importance of audits in ensuring the accuracy and consistency of data reported on the Worksheet S–10, we concluded that the FY 2015 Worksheet S–10 data were the best available audited data to be used in determining Factor 3 for FY 2020. We also noted that we had begun auditing the FY 2017 data in July 2019, with the goal of having the FY 2017 audited data available for future rulemaking.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58823 through 58825), we finalized our proposal to use the most recent available single year of audited Worksheet S–10 data to determine Factor 3 for FY 2021 and subsequent fiscal years. We explained our belief that using the most recent audited data available before the applicable Federal fiscal year, will more accurately reflect a hospital’s uncompensated care costs, as opposed to averaging multiple years of data. We noted that if a hospital has relatively different data between cost report years, we potentially would be diluting the effect of our considerable auditing efforts and introducing unnecessary variability into the calculation if we were to use multiple years of data to calculate Factor 3. Therefore, we also believed using a single year of audited cost report data is an appropriate methodology to determine Factor 3 for FY 2021 and subsequent years, except for IHS and Tribal hospitals and hospitals located in Puerto Rico. For IHS and Tribal hospitals and Puerto Rico hospitals, we finalized the use of the low-income insured days proxy to determine Factor 3 for FY 2021. We did not finalize a
methodology to determine Factor 3 for IHS and Tribal hospitals and Puerto Rico hospitals for FY 2022 and subsequent years because we believed further consideration and review of these hospitals’ Worksheet S–10 data was necessary (85 FR 58825).

In the FY 2021 IPPS/LTCH PPS final rule, we finalized the definition “uncompensated care” for FY 2021 and subsequent fiscal years, for purposes of determining uncompensated care costs and calculating Factor 3 (85 FR 58825 through 58828). We are continuing to use the definition that we had initially adopted in the FY 2018 IPPS/LTCH PPS final rule. Specifically, “uncompensated care” is defined as the amount on Line 30 of Worksheet S–10, which is the cost of charity care (Line 23) and the cost of non-Medicare bad debt and non-reimbursable Medicare bad debt (Line 29). We refer readers to the FY 2021 IPPS/LTCH PPS rule (85 FR 58825 through 58828) for a discussion of additional topics related to the definition of uncompensated care. We noted in the FY 2015 IPPS/LTCH PPS final rule that the Paper Reduction Act (PRA) package for Form CMS–2552–10 (OMB Control Number 0938–0050, expiration date March 31, 2022) would offer an additional opportunity to comment on the cost reporting instructions. A PRA package with comment period appeared in the November 10, 2020 Federal Register (85 FR 71653). We thank stakeholders for their comments on the PRA package and we will respond to those comments in a separate Federal Register document.

[2] Background on the Methodology Used to Calculate Factor 3 for FY 2021 and Subsequent Fiscal Years

Section 1886(r)(2)(C) of the Act governs both the selection of the data to be used in calculating Factor 3, and also allows the Secretary the discretion to determine the time periods from which we will derive the data to estimate the numerator and the denominator of the Factor 3 quotient. Specifically, section 1886(r)(2)(C)(i) of the Act defines the numerator of the quotient as the amount of uncompensated care for a subsection (d) hospital for a period selected by the Secretary. Section 1886(r)(2)(C)(ii) of the Act defines the denominator as the aggregate amount of uncompensated care for all subsection (d) hospitals that receive a payment under section 1886(r) of the Act for such period. In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50638), we adopted a process of making interim payments with final cost report settlement for both the empirically justified Medicare DSH payments and the uncompensated care payments required by section 3133 of the Affordable Care Act. Consistent with that process, we also determined the time period from which to calculate the numerator and denominator of the Factor 3 quotient in a way that would be consistent with making interim and final payments. Specifically, we must have Factor 3 values available for hospitals that we estimate will qualify for Medicare DSH payments and for those hospitals that we do not estimate will qualify for Medicare DSH payments but that may ultimately qualify for Medicare DSH payments at the time of cost report settlement.

In the FY 2021 IPPS/LTCH PPS final rule, we applied the following policies as part of the Factor 3 methodology: (1) The policy regarding newly merged hospitals that was initially adopted in the FY 2015 IPPS/LTCH PPS final rule; (2) the policies regarding annualization and long cost reports that were adopted in the FY 2018 and FY 2019 IPPS/LTCH PPS final rules, including a modified policy for the rare cases where a provider has no cost report for the fiscal year that is used in the Factor 3 methodology because the cost report for the previous fiscal year spans both years; (4) the modified new hospital policy that was finalized in the FY 2020 IPPS/LTCH PPS final rule; (5) the new merger policy adopted in the FY 2021 IPPS/LTCH PPS final rule that accounts for the merger effective date; and (6) the policies regarding the application of statistical trim methodologies to potentially aberrant CCRs and potentially aberrant uncompensated care costs reported on the Worksheet S–10.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58829), we continued to treat hospitals that merge after the development of the final rule for the applicable fiscal year similar to new hospitals. As explained in the FY 2015 IPPS/LTCH PPS final rule, for these newly merged hospitals, we do not have data currently available to calculate a Factor 3 amount that accounts for the merged hospital’s uncompensated care burden (79 FR 50021). In the FY 2015 IPPS/LTCH PPS final rule, we finalized a policy under which Factor 3 for hospitals that we do not identify as undergoing a merger until after the public comment period and additional review period following the publication of the final rule or that undergo a merger during the fiscal year would be recalculated similar to new hospitals (79 FR 50021 and 50022). Consistent with past policy, interim uncompensated care payments for newly merged hospitals are based only on the data for the surviving hospital’s CCN available the time of the development of the final rule. However, at cost report settlement, we will determine the newly merged hospital’s final uncompensated care payment based on the uncompensated care costs reported on its FY 2021 cost report. That is, we will revise the numerator of Factor 3 for the newly merged hospital to reflect the uncompensated care costs reported on the newly merged hospital’s FY 2021 cost report.

In FY 2021 IPPS/LTCH PPS final rule (85 FR 58829), we continued the policy that was finalized in the FY 2018 IPPS/LTCH PPS final rule of annualizing uncompensated care cost data reported on the Worksheet S–10 if a hospital’s cost report does not equal 12 months of data, except in the case of mergers, which would be subject to the modified merger policy adopted for FY 2021. In addition, we continued the policies that were finalized in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41415) regarding the use of the longest cost report available within the Federal fiscal year. However, we adopted a modified policy for those rare situations where a hospital has a cost report that starts in one fiscal year but spans the entirety of the following fiscal year such that the hospital has no cost report starting in that subsequent fiscal year. Under this modified policy, we use the cost report that spans both fiscal years for purposes of calculating Factor 3 when data from the latter fiscal year are used in the Factor 3 methodology.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58829 and 58830), we continued the modified new hospital policy for new hospitals that did not have data for the cost reporting period(s) used in the Factor 3 calculation for FY 2021. Under the modified policy originally adopted for FY 2020, new hospitals that have a preliminary projection of being eligible for Medicare DSH based on their most recent available disproportionate patient percentages may receive interim empirically justified DSH payments. However, because hospitals that did not have a FY 2017 cost report to use in the Factor 3 calculation and the projection of eligibility for DSH payments was still preliminary, the MAC will make a final determination concerning whether the hospital is eligible to receive Medicare DSH payments at cost report settlement based on its FY 2021 cost report. If the hospital is ultimately determined to be eligible for Medicare DSH payments for FY 2021, the hospital will receive an uncompensated care payment calculated using a Factor 3, where the numerator is the uncompensated care
costs reported on Worksheet S–10 of the hospital’s FY 2021 cost report, and the denominator is the sum of the uncompensated care costs reported on Worksheet S–10 of the FY 2017 cost reports for all DSH-eligible hospitals.

In the FY 2021 IPPS/LTCH PPS final rule, we finalized a new merger policy that accounts for the merger effective date (85 FR 58828 through 58829). To more accurately estimate UCC for the hospitals involved in a merger when the merger effective date occurs partway through the surviving hospital’s cost reporting period, we finalized a policy of not annualizing the acquired hospital’s data. Under this policy, we use only the portion of the acquired hospital’s unannualized UCC data that reflects the UCC incurred prior to the merger effective date, but after the start of the surviving hospital’s current cost reporting period. To do this, we calculate a multiplier to be applied to the acquired hospital’s UCC. This multiplier represents the portion of the UCC data from the acquired hospital that should be incorporated with the surviving hospital’s data to determine UCC for purposes of determining Factor 3 for the surviving hospital. This multiplier is obtained by calculating the number of days between the start of the applicable cost reporting period for the surviving hospital and the merger effective date, and then dividing this result by the total number of days in the reporting period of the acquired hospital. Applying this multiplier to the acquired hospital’s unannualized UCC data will determine the final portion of the acquired hospital’s UCC that should be added to that of the surviving hospital for purposes of determining Factor 3 for the merged hospital.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58831 and 58832), we continued to apply a CCR trim methodology similar to the CCR trim methodology policy that has been used for purposes of determining uncompensated care payments since FY 2018. This CCR trim methodology is consistent with the approach used in the outlier payment methodology under § 412.84(h)(3)(ii), which states that the Medicare contractor may use a statewide average CCR for hospitals whose operating or capital CCR is in excess of 3 standard deviations above the corresponding national geometric mean. We refer readers to the discussion in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58831) for a detailed description of the steps used to determine the applicable CCR.

In addition, we continued the UCC data trim methodology for rare situations where a hospital has potentially aberrant data that are unrelated to its CCR (85 FR 58832). However, because we had audited the FY 2017 Worksheet S–10 data for a number of hospitals, we explained that we no longer believe it is necessary to apply thetrim methodology for hospitals whose cost report has been audited. Accordingly, for FY 2021 we finalized a policy under which we exclude hospitals that were part of the audits from the trim methodology for potentially aberrant UCC. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58831), we also modified the potentially aberrant UCC trim methodology when it is applied to all-inclusive rate providers (AIRPs). Under this modified trim methodology, when an AIRP’s total UCC is greater than 50 percent of its total operating costs calculated using the CCR included on its FY 2017 cost report, we will recalculate the AIRP’s UCC using the CCR reported on Worksheet S–10, line 1 of the hospital’s most recent available prior year cost report that does not result in UCC of over 50 percent of total operating costs.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58824 and 58825), we continued the policy we first adopted for FY 2018 of substituting data regarding FY 2013 low-income insured days for the Worksheet S–10 data when determining Factor 3 for IHS and Tribal hospitals and subsection (d) Puerto Rico hospitals that have a FY 2013 cost report. We stated our belief that this approach was appropriate as the FY 2013 data reflect the most recent data available when the hospitals’ low-income insured days would be used in this step.) The denominator is calculated using the low-income insured days proxy data from all DSH-eligible hospitals. Consistent with the policy adopted in the FY 2019 IPPS/LTCH PPS final rule, if a hospital did not have both Medicaid days and SSI days for FY 2013, we used out-year data for this calculation. We also noted that the methodology applied in the FY 2021 IPPS/LTCH PPS final rule for purposes of determining Factor 3 for FY 2021 would apply for FY 2022 and subsequent years, using Worksheet S–10 data from the most recent cost reporting year for which audits have been conducted. However,
we did not finalize a methodology to determine Factor 3 for FY 2022 and subsequent years for IHS and Tribal hospitals and Puerto Rico hospitals that have a FY 2013 cost report because we believed further consideration and review of these hospitals’ Worksheet S–10 data is necessary.

We amended the regulations at §412.106(g)(1)(iii)(C) by adding a new paragraph (7) to reflect the methodology for computing Factor 3 for FY 2021. We also added a new paragraph (8) to reflect the policy adopted for all subsequent fiscal years of using the most recent available single year of audited Worksheet S–10 data to calculate Factor 3 for all eligible hospitals, except IHS and Tribal hospitals and Puerto Rico Hospitals.

(3) Proposed Methodology for Calculating Factor 3 for FY 2022
(a) Use of Audited FY 2018 Data To Calculate Factor 3 for FY 2022
Audits of FY 2018 cost reports began in 2020 and those audited reports are now available, in time for the development of this proposed rule. Feedback from the audits of the FY 2015 and FY 2017 reports and lessons learned were incorporated into the audit process for the FY 2018 reports. We again chose to audit 1 year of data (that is, FY 2018) in order to maximize the available audit resources and not spread those audit resources over multiple years, potentially diluting their effectiveness.

Given that the FY 2018 Worksheet S–10 data are the most recent available audited data, we believe, on balance, that the FY 2018 Worksheet S–10 data are the best available data to use for calculating Factor 3 for FY 2022. As discussed in the FY 2020 IPPS/LTCH PPS proposed and final rules (84 FR 19419 and 84 FR 42364), we continue to believe that mixing audited and unaudited data for individual hospitals by averaging multiple years of data could potentially lead to a less smooth result. To the extent that the audited FY 2018 data for a hospital may be relatively different from its FY 2017 data (whether audited or unaudited), we potentially would be diluting the effect of the revisions to the cost reporting instructions and our considerable auditing efforts, while introducing unnecessary variability into the calculation if we were to use multiple years of data to calculate Factor 3 for FY 2022. We recognize that the FY 2017 reports include audited data for some hospitals. However, the FY 2018 cost reports are the most recent year of audited data and, reflect the revisions to the Worksheet S–10 cost report instructions that were effective on October 1, 2017.

Accordingly, consistent with the policy adopted in the FY 2021 IPPS/LTCH PPS final rule and codified in the regulations at §412.106(g)(8), we have used a single year of Worksheet S–10 data from FY 2018 cost reports to calculate Factor 3 for FY 2022 for all eligible hospitals with the exception of IHS and Tribal hospitals and Puerto Rico hospitals that have a cost report for 2013. As discussed in a later section, we are proposing to continue to use the low-income insured days proxy to calculate Factor 3 for these hospitals for one more year. We note that the proposed uncompensated care payments to hospitals whose FY 2018 Worksheet S–10 data have been audited represent approximately 99.6 percent of the proposed total uncompensated care payments for FY 2022. For purposes of this FY 2022 proposed rule, we have used a HCRI S extract updated through February 19, 2021. We note that we intend to use the March 2021 update of HCRI S for the FY 2022 final rule and the respective March updates for all future final rules. However, we may consider the use of more recent data that may become available after March 2021, but prior to the development of the final rule, if appropriate, for purposes of calculating the final Factor 3 for the FY 2022 IPPS/LTCH PPS final rule.

(b) IHS and Tribal Hospitals
For the reasons discussed in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38209), we continue to recognize that the use of data from Worksheet S–10 to calculate the uncompensated care amount for IHS and Tribal hospitals may jeopardize these hospitals’ payments due to their unique funding structure. Prior to the proposed rulemaking for FY 2022, CMS consulted with IHS and Tribal hospitals regarding uncompensated care reporting. We are considering the input received through this consultation with IHS and Tribal hospitals for future rulemaking.

Therefore, for IHS and Tribal hospitals, we propose to continue the policy first adopted in the FY 2018 rulemaking regarding the low-income patient proxy. Specifically, for FY 2022 we propose to determine Factor 3 for these hospitals based on Medicaid days for FY 2013 and the most recent available year of data on SSI days. The aggregate amount of uncompensated care that is used in the Factor 3 denominator for these hospitals would continue to be based on the low-income patient proxy; that is, the aggregate amount of uncompensated care determined for all DSH eligible hospitals using the low-income insured days proxy. We continue to believe this approach is appropriate because the FY 2013 data reflect the most recent available information regarding these hospitals’ Medicaid days before any expansion of Medicaid. We also note that all IHS and Tribal hospitals have a FY 2013 cost report that can be used for purposes of determining Factor 3. At the time of development of the proposed rule, for modeling purposes, we computed Factor 3 for these hospitals using FY 2013 Medicaid days from a HCRIS extract updated through February 19, 2021, and the FY 2018 SSI days.

(c) Puerto Rico Hospitals
In the FY 2021 IPPS/LTCH PPS proposed rule, we proposed to determine Factor 3 for Puerto Rico hospitals using Worksheet S–10 data starting in FY 2022. We did not finalize this proposal in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58825) because we believed further consideration and review was necessary. However, we noted that we continued to believe Worksheet S–10 data is the appropriate long term source for information on uncompensated care for hospitals located in Puerto Rico.

We are continuing to consider the reporting challenges in Puerto Rico that may negatively impact the ability of Puerto Rico hospitals to report uncompensated care. Accordingly, for FY 2022 we are proposing to determine Factor 3 for Puerto Rico hospitals that have a FY 2013 cost report based on the low-income patient proxy. We would determine Factor 3 for these hospitals based on Medicaid days for FY 2013 and the most recent available year of data on SSI days. The aggregate amount of uncompensated care that is used in the Factor 3 denominator for these hospitals would continue to be based on the low-income patient proxy; that is, the aggregate amount of uncompensated care determined for all DSH eligible hospitals using the low-income insured days proxy. At the time of development of the proposed rule, for modeling purposes, we computed Factor 3 for these hospitals using FY 2013 Medicaid days from a recent HCRIS extract and the most recent available data on SSI days, which was the FY 2018 SSI days. In addition, because we are proposing to continue to use 1 year of insured low-income patient days as a proxy for uncompensated care for Puerto Rico hospitals and residents of Puerto Rico are not eligible for SSI benefits, we are proposing to continue to use a proxy for SSI days for Puerto Rico hospitals, consisting of 14 percent of a hospital’s Medicaid days, as finalized in the FY
2017 IPPS/LTCH PPS final rule (81 FR 56955 through 56956).

(b) Methodology for Calculating Factor 3 for FY 2022

For purposes of determining Factor 3 for FY 2022, we will apply the methodology adopted in the FY 2021 IPPS/LTCH PPS final rule. Specifically, we are applying the following policies:

(1) The merger policies that were initially adopted in the FY 2015 IPPS/LTCH PPS final rule (79 FR 50021), as modified in the FY 2021 IPPS/LTCH PPS final rule to incorporate the use of a multiplier to account for merger effective date; (2) the policy for providers with multiple cost reports, beginning in the same fiscal year, of using the longest cost report and annualizing Medicaid data and uncompensated care data if a hospital’s cost report does not equal 12 months of data; (3) the policy, as modified in the FY 2021 IPPS/LTCH PPS final rule, for the rare case where a hospital has a cost report that spans both fiscal years and spans the entirety of the following fiscal year, such that the hospital has no cost report for that subsequent fiscal year, of using the cost report that spans both fiscal years for the latter fiscal year; (4) the new hospital policy, as modified in the FY 2020 IPPS/LTCH PPS final rule; (5) the newly merged hospital policy; and (6) the policies regarding the application of statistical trim methodologies to potentially aberrant CCRs and potentially aberrant uncompensated care costs reported on the Worksheet S–10.

• New Hospital for Purposes of Factor 3

We will continue to apply the new hospital policy that was initially adopted in the FY 2020 IPPS/LTCH PPS final rule to determine Factor 3 for new hospitals that do not have an FY 2018 cost report to use in the Factor 3 calculation (that is, hospitals with CCNs established on or after October 1, 2018). In the FY 2020 IPPS/LTCH PPS final rule, we modified the new hospital policy that was initially adopted in the FY 2014 IPPS/LTCH PPS final rule (78 FR 50643) and continued to apply through FY 2019 (83 FR 41417). Under this modified policy, if a new hospital has a preliminary projection of being eligible for DSH payments based on its most recent available disproportionate patient percentage, it may receive interim empirically justified DSH payments. However, new hospitals will not receive interim uncompensated care payments for FY 2022 because we will have no FY 2018 uncompensated care data on which to determine what those interim payments should be. The MAC will make a final determination concerning whether the hospital is eligible to receive Medicare DSH payments at cost report settlement based on its FY 2022 cost report. If the hospital is ultimately determined to be eligible for Medicare DSH payments for FY 2022, the hospital will receive an uncompensated care payment calculated using a Factor 3, where the numerator is the uncompensated care costs reported on Worksheet S–10 of the hospital’s FY 2022 cost report, and the denominator is the sum of the uncompensated care costs reported on Worksheet S–10 of the FY 2018 cost reports for all DSH-eligible hospitals. This denominator will be the same denominator that is determined prospectively for purposes of determining Factor 3 for all DSH-eligible hospitals, with the exception of Puerto Rico hospitals and IHS and Tribal hospitals.

• Newly Merged Hospitals

We are continuing to treat hospitals that merge after the development of the final rule for the applicable fiscal year similar to new hospitals. As explained in the FY 2015 IPPS/LTCH PPS final rule, for these newly merged hospitals, we do not have data currently available to calculate a Factor 3 amount that accounts for the merged hospital’s uncompensated care burden (79 FR 50021). In the FY 2015 IPPS/LTCH PPS final rule, we finalized a policy under which Factor 3 for hospitals that we do not identify as undergoing a merger until after the public comment period and additional review period following the publication of the final rule or that undergo a merger during the fiscal year will be recalculated similar to new hospitals (79 FR 50021 and 50022). In the FY 2015 IPPS/LTCH PPS final rule, we finalized a policy under which Factor 3 for hospitals that we do not identify as undergoing a merger until after the public comment period and additional review period following the publication of the final rule or that undergo a merger during the fiscal year will be recalculated similar to new hospitals (79 FR 50021 and 50022). Consistent with the policy adopted in the FY 2015 IPPS/LTCH PPS final rule, we will continue to treat newly merged hospitals in a similar manner to new hospitals, such that the newly merged hospital’s final uncompensated care payment will be determined at cost report settlement where the numerator of the newly merged hospital’s Factor 3 will be based on the cost report of only the surviving hospital (that is, the newly merged hospital’s cost report) for the current fiscal year. However, if the hospital’s cost reporting period includes less than 12 months of data, the data from the newly merged hospital’s cost report will be annualized for purposes of the Factor 3 calculation.

Consistent with past policy, interim uncompensated care payments for the newly merged hospital will be based only on the data for the surviving hospital’s CCN available at the time of the development of the final rule. In other words, for FY 2022, the eligibility of a newly merged hospital to receive interim uncompensated care payments and the amount of any interim uncompensated care payments, will be based only on the FY 2018 cost report available for the surviving CCN at the time the final rule is developed. However, at cost report settlement, we will determine the newly merged hospital’s final uncompensated care payment based on the uncompensated care costs reported on its FY 2022 cost report. That is, we will revise the numerator of Factor 3 for the newly merged hospital to reflect the uncompensated care costs reported on the newly merged hospital’s FY 2022 cost report.

• CCR Trim Methodology

The calculation of a hospital’s total uncompensated care costs on Worksheet S–10 requires the use of the hospital’s cost to charge ratio (CCR). Consistent with the process for trimming CCRs used in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58831 and 58832), we will apply the following steps to determine the applicable CCR:

Step 1: Remove Maryland hospitals. In addition, we will remove all-inclusive rate providers because their CCRs are not comparable to the CCRs calculated for other IPPS hospitals.

Step 2: For FY 2018 cost reports, calculate a CCR “ceiling” with the following data: For each IPPS hospital that was not removed in Step 1 (including non-DSH eligible hospitals), we use cost report data to calculate a CCR by dividing the total costs on Worksheet C, Part I, Line 202, Column 3 by the charges reported on Worksheet C, Part I, Line 202, Column 8. (Combining data from multiple cost reports from the same fiscal year is not necessary, as the longer cost report will be selected.) The ceiling is calculated as 3 standard deviations above the national geometric mean CCR for the applicable fiscal year. This approach is consistent with the methodology for calculating the CCR ceiling used for high-cost outliers. Remove all hospitals that exceed the ceiling so that these aberrant CCRs do not skew the calculation of the statewide average CCR.

Step 3: Using the CCRs for the remaining hospitals in Step 2, determine the urban and rural statewide average CCRs for FY 2018 for hospitals within each State (including non-DSH eligible hospitals), weighted by the sum of total hospital discharges from Worksheet S–3, Part I, Line 14, Column 15.

25454 Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Proposed Rules
Step 4: Assign the appropriate statewide average CCR (urban or rural) calculated in Step 3 to all hospitals, excluding all-inclusive rate providers, with a CCR for FY 2018 greater than 3 standard deviations above the national geometric mean for that fiscal year (that is, the CCR “ceiling”). For this proposed rule, the statewide average CCR was applied to 10 hospitals, of which 3 hospitals had FY 2018 Worksheet S–10 data.

Step 5: For providers that did not report a CCR on Worksheet S–10, Line 1, we assign them the statewide average CCR as determined in step 3.

After completing the previously described steps, we re-calculate the hospital’s uncompensated care costs (Line 30) using the trimmed CCR (the statewide average CCR (urban or rural, as applicable)).

- Uncompensated Care Data Trim Methodology

After applying the CCR trim methodology, we note that there are rare situations where a hospital has potentially aberrant data that are unrelated to its CCR. Therefore, under the trim methodology for potentially aberrant UCC that was included as part of the methodology for purposes of determining Factor 3 in the FY 2021 final rule (85 FR 58832), if the hospital’s uncompensated care costs for FY 2018 are an extremely high ratio (greater than 50 percent) of its total operating costs, we will determine the ratio of uncompensated care costs to the hospital’s total operating costs from another available cost report, and apply that ratio to the total operating expenses for the potentially aberrant fiscal year to determine an adjusted amount of uncompensated care costs. Specifically, if the hospital’s FY 2018 cost report is determined to include potentially aberrant data, data from the FY 2019 cost report will be used for the ratio calculation. Thus, the hospital’s uncompensated care costs for FY 2018 will be trimmed by multiplying its FY 2018 total operating costs by the ratio of uncompensated care costs to total operating costs from the hospital’s FY 2019 cost report to calculate an estimate of the hospital’s uncompensated care costs for FY 2018 for purposes of determining Factor 3 for FY 2022.

We note that we have audited the FY 2018 Worksheet S–10 data for a number of hospitals. Because the UCC data for these hospitals have been subject to audit, we believe there is increased confidence that if high uncompensated care costs are reported by these audited hospitals, the information is accurate. Therefore, consistent with the policy that was adopted in the FY 2021 IPPS/LTCH PPS final rule, it is unnecessary to apply the trim methodology for these audited hospitals.

In addition to the existing UCC trim methodology, we are proposing to apply a new trim specific to certain hospitals that do not have audited FY 2018 Worksheet S–10 data. We note that in rare cases, hospitals that are not currently projected to be DSH eligible and that do not have audited Worksheet S–10 data may have a potentially aberrant amount of insured patients’ charity care costs (Line 23 column 2). We are proposing to use a threshold of three standard deviations from the mean ratio of insured patients’ charity care costs to total uncompensated care costs (line 23 column 2 divided by line 30) and a dollar threshold of $7 million, which is the median total uncompensated care cost reported on FY 2018 cost reports for hospitals that are projected to be DSH eligible, excluding IHS and Tribal hospitals and Puerto Rico hospitals. Therefore, for FY 2022, we are proposing that in the rare case that a hospital’s insured patients’ charity care costs are greater than $7 million and the ratio of the hospital’s cost of insured patient charity care (line 23 column 2) to total uncompensated care costs (line 30) is greater than 60 percent (rounded from 58 percent), we would exclude the hospital from the prospective Factor 3 calculation. This proposed trim would only impact hospitals that are not currently projected to be DSH eligible; and therefore, are not a part of the calculation of the denominator of Factor 3, which includes only uncompensated care costs for projected DSH eligible hospitals. If a hospital would be trimmed under both the existing UCC trim methodology and this proposed new trim, we are proposing to apply this new trim in place of the existing UCC trim methodology. We believe the proposed new trim more appropriately addresses potentially aberrant insured patient charity costs compared to the existing trim, because the existing trim is based solely on the ratio of total uncompensated care costs to total operating costs and does not consider the level of insured patients’ charity care costs.

In addition, we also propose that, for the hospitals that would be subject to this proposed trim, if the hospital is ultimately determined to be DSH eligible at cost report settlement, then the MAC would calculate a Factor 3 after reviewing the uncompensated care information reported on Worksheet S–10 of the hospital’s FY 2022 cost report. We believe if a hospital subject to this proposed trim is ultimately determined to be DSH eligible at cost report settlement, its uncompensated care payment should be calculated only after the hospital’s reporting of insured charity care costs on its FY 2022 Worksheet S–10 has been reviewed. We note that this approach is comparable to the policy for new hospitals for which we cannot calculate a prospective Factor 3 because they do not have Worksheet S–10 data for the relevant fiscal year.

- Summary of Methodology

In summary, for FY 2022, we will compute Factor 3 for each hospital using the following steps:

Step 1: Select the provider’s longest cost report from its Federal fiscal year (FFY) 2018 cost reports. (Alternatively, in the rare case when the provider has no FFY 2018 cost report because the cost report for the previous Federal fiscal year spanned the FFY 2018 time period, the previous Federal fiscal year cost report would be used in this step.)

Step 2: Annualize the uncompensated care costs (UCC) from Worksheet S–10 Line 30, if the cost report is more than or less than 12 months. (If applicable, use the statewide average CCR (urban or rural) to calculate uncompensated care costs.)

Step 3: Combine adjusted and/or annualized uncompensated care costs for hospitals that merged using the merger policy.

Step 4: Calculate Factor 3 for IHS and Tribal hospitals and Puerto Rico hospitals that have a cost report for 2013 using the low-income insured days proxy based on FY 2013 cost report data and the most recent available SSI ratio (or, for Puerto Rico hospitals, 14 percent of the hospital’s FY 2013 Medicaid days). The denominator is calculated using the low-income insured days proxy data from all DSH eligible hospitals.

Step 5: Calculate Factor 3 for the remaining DSH eligible hospitals using annualized uncompensated care costs (Worksheet S–10 Line 30) based on FFY 2018 cost report data (from Step 1, 2 or 3). New hospitals and the hospitals for which Factor 3 was calculated in Step 4 are excluded from this calculation.

We are proposing to amend the regulation at §412.106 by adding a new paragraph (g)(1)(iii)(C)(9) to reflect the methodology for computing Factor 3 for FY 2022 for IHS and Tribal hospitals and for Puerto Rico hospitals that have a 2013 cost report. We also are proposing to make a conforming change to limit the reference to Puerto Rico hospitals in paragraph (g)(1)(iii)(C)(8) to those Puerto Rico hospitals that have a cost report for 2013.
(c) Proposal Related to the Per Discharge Amount of Interim Uncompensated Care Payments

Since FY 2014, we have made interim uncompensated care payments during the fiscal year on a per discharge basis. We have used a 3-year average of the number of discharges for a hospital to produce an estimate of the amount of the hospital’s uncompensated care payment per discharge. Specifically, the hospital’s total uncompensated care payment amount for the applicable fiscal year, is divided by the hospital’s historical 3-year average of discharges computed using the most recent available data to determine the uncompensated care payment per discharge for that fiscal year.

We are proposing to modify this calculation for FY 2022 to be based on the average of FY 2018 and FY 2019 historical discharge data, rather than a 3-year average that includes data from FY 2018, FY 2019, and FY 2020. We believe computing a 3-year average with the FY 2020 discharge data would underestimate discharges, due to the decrease in discharges during the pandemic. Under this proposal, the resulting 2-year average of discharges would be used to calculate the per discharge payment amount that will be used to make interim uncompensated care payments to each projected DSH eligible hospital during FY 2022. The interim uncompensated care payments made to a hospital during the fiscal year are reconciled following the end of the year to ensure that the final payment amount is consistent with the hospital’s prospectively determined uncompensated care payment for the Federal fiscal year.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58833 and 58834), we finalized a voluntary process through which a hospital may submit a request to its MAC for a lower per discharge interim uncompensated care payment amount, including a reduction to zero, once before the beginning of the Federal fiscal year and/or once during the Federal fiscal year. In conjunction with this request, the hospital must provide supporting documentation demonstrating there would likely be a significant recoupment (for example, 10 percent or more of the hospital's total uncompensated care payment or at least $100,000) at cost report settlement if the per discharge amount is not lowered. For example, a hospital might submit documentation showing a large projected increase in discharges during the fiscal year to support reduction of its per discharge uncompensated care payment amount. As another example, a hospital might request that its per discharge uncompensated care payment amount be reduced to zero midyear if the hospital’s interim uncompensated care payments during the year have already surpassed the total uncompensated care payment calculated for the hospital.

Under the policy we finalized in the FY 2021 IPPS/LTCH PPS final rule, the hospital’s MAC would evaluate these requests and the supporting documentation before the beginning of the Federal fiscal year and/or with midyear requests when the historical average number of discharges is lower than hospital’s projected FY 2022 discharges. If following review of the request and the supporting documentation, the MAC agrees that there likely would be significant recoupment of the hospital’s interim Medicare uncompensated care payments at cost report settlement, the only change that will be made is to lower the per discharge amount either to the amount requested by the hospital or another amount determined by the MAC to be appropriate to reduce the likelihood of a substantial recoupment at cost report settlement. If the MAC determines it would be appropriate to reduce the interim Medicare uncompensated care payment per discharge amount, that updated amount will be used for purposes of the outlier payment calculation for the remainder of the Federal fiscal year. We refer readers to the Addendum to this proposed rule for a more detailed discussion of the steps for determining the operating and capital Federal payment rate and the outlier payment calculation. No change would be made to the total uncompensated care payment amount determined for the hospital on the basis of its Factor 3. In other words, any change to the per discharge uncompensated care payment amount will not change how the total uncompensated care payment amount will be reconciled at cost report settlement.

(d) Process for Notifying CMS of Merger Updates and To Report Upload Issues

As we have done for every proposed and final rule beginning in FY 2014, in conjunction with this proposed rule, we will publish on the CMS website a table listing Factor 3 for all hospitals that we are aware of and the computed uncompensated care payment for each merged hospital. In the DSH uncompensated care supplemental data file, we list new hospitals and the ten hospitals that would be subject to the proposed new trim, with a N/A in the Factor 3 column.

Hospitals have 60 days from the date of public display of the FY 2022 IPPS/LTCH PPS proposed rule in the Federal Register to review the table and supplemental data file published on the CMS website in conjunction with the proposed rule and to notify CMS in writing of issues related to mergers and/or to report potential upload discrepancies due to MAC mishandling of the Worksheet S–10 data during the report submission process (for example, report not reflecting audit results due to MAC mishandling or most recent report differs from previously accepted amended report due to MAC mishandling). Comments raising issues that are specific to the information included in the table and supplemental data file can be submitted to the CMS inbox at Section3133DSH@cms.hhs.gov. All other comments submitted in response to our proposed policies for determining uncompensated care payments for FY 2022 must be submitted in one of three ways found in the ADDRESSES section of this proposed rule before the close of the comment period in order to be assured consideration. In addition, this CMS DSH inbox is not intended for Worksheet S–10 audit process related emails, which should be directed to the MACs. We will address comments related to mergers and/or reporting upload discrepancies submitted to the CMS DSH inbox as presented in the table and the supplemental data file that we publish on the CMS website in
Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Proposed Rules

conjunction with the publication of the FY 2022 IPPS/LTCH PPS final rule.

For FY 2022, we are again proposing that hospitals will have 15 business days from the date of public display of the FY 2022 IPPS/LTCH PPS final rule in the Federal Register to review and submit comments on the accuracy of the table and supplemental data file published in conjunction with the final rule. Any changes to Factor 3 would be posted on the CMS website and would be effective beginning October 1, 2021. We continue to believe that hospitals have sufficient opportunity during the comment period for the proposed rule to provide information about recent and/or pending mergers and/or to report upload discrepancies. Hospitals do not enter into mergers without advanced planning. A hospital can inform CMS during the comment period for the proposed rule regarding any merger activity not reflected in supplemental file published in conjunction with the proposed rule. As discussed in an earlier section, we currently expect to use data from March 2021 HCRI$ extract for the FY 2022 final rule, which contributes to our increased confidence that hospitals would be able to comment on mergers and report any upload discrepancies during the comment period for this proposed rule. However, we also noted that we may consider using more recent data that may become available after March 2021, but before the final rule for the purpose of calculating the final Factor 3 for the FY 2022 IPPS/LTCH PPS final rule. In the event that there are any remaining merger updates and/or upload discrepancies after the final rule, the 15 business days from the date of public display of the FY 2022 IPPS/LTCH PPS final rule deadline should allow for the time necessary to prepare and make any corrections to Factor 3 calculations before the beginning of the Federal fiscal year.

We are inviting public comments on our proposed methodology for calculating Factor 3 for FY 2022, including, but not limited to, our proposed use of FY 2018 Worksheet S–10 data.

F. Counting Days Associated With Section 1115 Demonstration Projects in the Medicaid Fraction

Some States extend medical coverage benefits under a section 1115(a) demonstration project (also referred to as a section 1115 waiver) to populations that could not have been made eligible for medical assistance under the Medicare DSH policy. These populations, commonly referred to as expansion populations or expansion waiver groups, are specific, finite populations defined in the waiver approval letters and special terms and conditions for each demonstration project.

On January 20, 2000, we issued an interim final rule with comment period (65 FR 3136) (hereinafter, January 2000 interim final rule), followed by a final rule issued on August 1, 2000 (65 FR 47086 through 47087), that changed the Secretary’s policy on how to treat the patient days of all populations that receive medical coverage benefits under a section 1115 demonstration project in calculating the Medicare DSH adjustment. Previously, hospitals could include only the days for those populations receiving medical coverage benefits under a section 1115 demonstration project who were, or could have been made, eligible for Medicaid under the State plan. Patient days of those expansion waiver groups who were not and could not be made eligible for medical assistance under the State plan were not to be included for purposes of determining Medicaid patient days in calculating the Medicare DSH patient percentage.

Under the new policy adopted in the January 2000 interim final rule (65 FR 3137), hospitals could include in the numerator of the Medicaid fraction all patient days of populations eligible for Title XIX for which matching payment through a section 1115 expansion waiver demonstration project is made, whether or not those individuals were or could be made eligible for medical assistance under a State plan. This policy was effective for discharges occurring on or after January 20, 2000. In the January 2000 interim final rule (65 FR 3137), we explained that allowing hospitals to include patient days for section 1115 expansion populations in the Medicare DSH calculation is fully consistent with the Congressional goals of the Medicare DSH adjustment to recognize the higher costs to hospitals of treating low-income individuals covered under Medicaid.

In the FY 2004 IPPS final rule (68 FR 45420 and 45421), we further revised our regulations in order to limit the types of section 1115 waiver programs for which patient days could be counted in the numerator of the Medicaid fraction. We explained that in allowing hospitals to include patient days of section 1115 expansion waiver populations, our intention was to include patient days of those populations who, under a demonstration project, receive benefits, including inpatient hospital coverage benefits, in addition to the benefits provided to traditional Medicaid beneficiaries. We had become aware, however, that certain section 1115 demonstration projects serve expansion populations with benefit packages so limited that the benefits are unlike the relatively expansive health care insurance coverage provided under a Medicaid State plan. We explained that these limited section 1115 demonstration projects extend coverage only for specific services and do not include insurance coverage for inpatient hospital care. We noted that due to the limited nature of the coverage provided under the section 1115 waiver, these expansion populations could have significantly higher incomes than traditional Medicaid beneficiaries. Because of the limited nature of the medical coverage benefits provided to expansion populations under these waivers, as compared to the benefits provided to the traditional Medicaid population under a State plan, and the possible difference in income levels between the expansion populations in limited benefit demonstrations and traditional Medicaid beneficiaries, we determined it was appropriate to exclude patient days of patients provided limited benefits under a section 1115 waiver from the determination of Medicaid days for purposes of the DSH calculation. Specifically, we revised the language of § 412.106(b)(4)(i) to provide that for purposes of determining the Medicaid fraction, a patient is deemed eligible for Medicaid on a given day only if the patient is eligible for inpatient hospital services under an approved State Medicaid plan or under a section 1115 waiver. Thus, under our current regulations, hospitals are allowed to count patient days in the numerator of the Medicaid fraction only if they are days of patients eligible for inpatient hospital services under either a State Medicaid plan or section 1115 expansion waiver, who are not also entitled to benefits under Medicare Part A.

In the FY 2004 IPPS final rule, we specifically discussed family planning benefits offered under a section 1115 waiver as an example of the kind of waiver program that should not be counted in the Medicaid fraction because the benefits granted to the expansion population are too limited and, therefore, might be offered to populations with significantly higher incomes. Our intention was to provide a concrete example of how the changes being made in the FY 2004 IPPS final rule would refine the Secretary’s policy to allow only the days of those expansion waiver populations who are provided medical coverage benefits, and
specifically coverage of inpatient hospital care, like the health care coverage that traditional Medicaid beneficiaries receive under a State plan, to be included in the numerator of the Medicaid fraction of the Medicare DSH calculation. While we specifically discussed section 1115 waiver family planning benefits, it was our intention that they would serve as an illustrative example of the kind of benefits offered through a section 1115 waiver program that are so limited that the patients receiving them should not be considered eligible for Medicaid for purposes of the DSH calculation.

In 2005, the Ninth Circuit held that expansion populations receive care “under the State plan” and that, accordingly, our pre-2000 practice of excluding them from the numerator of the Medicaid fraction was contrary to the plain language of the Act.938 Subsequently, the District Court for the District of Columbia reached the same conclusion, reasoning that if our policy of counting the days of expansion populations after 2000 was correct, then patients in expansion populations were necessarily “eligible for medical assistance under a State plan” (that is, Medicaid) and the Act had always required their inclusion.939

Shortly thereafter, in early 2006, Congress enacted the Deficit Reduction Act of 2005 (“the DRA”). Section 5002 of the DRA amended section 1886(d)(5)(F)(vi) of the Act to clarify our authority to include or exclude expansion populations from the DSH calculation, effectively overruling the earlier court decisions. Section 5002(a) of the DRA clarified that expansion populations receiving Medicaid benefits were not “eligible for medical assistance under a State plan” by referring to them as “not so eligible.” The statute made explicit that the Secretary nevertheless has the discretion to “regard” certain expansion populations as being “eligible for medical assistance under a State plan” for the purpose of the DSH calculation, and to include them in the numerator of the Medicaid fraction “to the extent and for the period the Secretary determines appropriate.”

Section 5002(b) of the DRA expressly ratified our pre-2000 policy of not including expansion populations unless they could have been made eligible for Medicaid. As discussed, at the time the DRA was enacted, CMS “regarded” only a small subset of expansion populations as being eligible for Medicaid: Those who were eligible to receive inpatient hospital insurance benefits under the terms of the expansion waiver. In light of that history, we have not understood the DRA to grant CMS the authority to include in the DSH calculation any patient who in any way benefits from a section 1115 demonstration project. Rather, our authority under section 1886(d)(5)(F)(vi) of the Act remains limited to including expansion populations—that is, patients who can be “regarded” as “eligible for medical assistance under a State plan approved under title XIX” (that is, Medicaid) because they receive benefits through a section 1115 demonstration project that are comparable to traditional Medicaid benefits.

More recently, section 1115 demonstration projects have been used to authorize the funding of uncompensated care pools that help to offset the burden that treating the uninsured places on hospitals. These pools do not extend Medicaid benefits to uninsured individuals. Unlike demonstration projects that expand the population of people who are entitled to Medicaid benefits, these pools do not provide inpatient health care directly to patients or, like insurance, make payments on behalf of specific, covered individuals, but rather directly benefit hospitals and other providers by making Medicaid funds available to compensate them for the otherwise uncompensated costs that they incur in providing medical care to the uninsured and under-insured. Making these funding pools available to hospitals and other providers to reduce their uncompensated costs advances the objective of the Medicaid program, as required by section 1115 of the Act, by making these entities more financially viable and able to continue to serve the Medicaid population. Indeed, these uncompensated care pools serve essentially the same function as Medicaid DSH payments under sections 1902(a)(13)(A)(iv) and 1923 of the Act by indirectly subsidizing the cost of treating the uninsured, while not extending Medicaid benefits to additional populations.

Consistent with our current policy of excluding patient days of individuals provided limited benefits (like family planning benefits) under a section 1115 expansion waiver from the numerator of the Medicaid fraction because the benefits they receive are too limited to be considered similar to Medicaid coverage, we believe it is also appropriate to exclude patient days for which hospitals receive payment from an uncompensated care pool or other similar funding source authorized by section 1115(a)(2). Uncompensated care pools and other funding streams provided to hospitals do not offer any medical coverage benefits directly to individuals, let alone benefits that are comparable to the panoply of benefits provided to traditional Medicaid beneficiaries under a State plan. As a result, we do not believe that the uninsured patients whose costs are partially offset by uncompensated care pools can be “regarded” as being eligible for Medicaid as required under section 1886(d)(5)(F)(vi) of the Act. Therefore, the patient days paid from such pools and other similar sources should not be included in the calculation of the Medicare DSH adjustment.

Similarly, we believe the days of patients who, under a section 1115 expansion waiver, receive premium assistance—that is, financial assistance that can be used to help with the purchase of health insurance from a private entity—should also be excluded from the DSH calculation. Like patients receiving only a family planning or other limited benefit from a demonstration project, premium assistance patients do not receive guaranteed health insurance coverage for inpatient hospital services. Rather, they receive money they can use to buy private health insurance that may not necessarily provide the same type of benefits traditional Medicaid beneficiaries receive. Moreover, premium assistance is usually offered on a sliding scale with relatively wealthy individuals receiving smaller subsidies and individuals with lower incomes receiving higher subsidies. As a result, individuals who receive premium assistance under an expansion waiver program may be significantly wealthier than traditional Medicaid beneficiaries. Because individuals receiving premium assistance as part of an expansion waiver do not directly receive health insurance for inpatient hospital services and may have higher incomes than traditional Medicaid beneficiaries, we do not believe the days of such patients are properly included in the numerator of the Medicaid fraction.

Recently, however, courts have decided in a series of cases [Bethesda Health, Inc. v. Azar, 980 F.3d 121 (D.C. Cir. 2020); Forrest General Hospital v. Azar, 926 F.3d 221 (5th Cir. 2019); HealthAlliance Hosps., Inc. v. Azar, 346 F. Supp. 3d 43 (D.D.C. 2018)] that, based on the current language of the regulations, CMS is required to count in the numerator of the Medicaid fraction patient days for which hospitals have
referred payment from an uncompensated care pool authorized by a section 1115 demonstration and the days of patients who receive premium assistance under a section 1115 demonstration program. These courts have concluded that if a hospital received payment for otherwise uncompensated inpatient hospital treatment of a patient, that patient is “eligible for inpatient hospital services” within the meaning of the current regulation. Likewise, the courts have concluded that patients who receive premium assistance to pay for private insurance that covers inpatient hospital services are “eligible for inpatient hospital services” within the meaning of the current regulation. As discussed previously, that was not our intent when we adopted the current language of the regulation, and we continue to believe that it is not appropriate to include patient days associated with these types of expansion programs in the Medicare DSH calculation because the benefits offered under these section 1115 demonstrations are not similar to traditional Medicaid benefits and may be provided to individuals with much higher incomes.

In light of these court decisions, we believe it is appropriate to further revise our regulations to ensure that the only section 1115 days that may be counted in the numerator of the Medicaid fraction are the days of patients for whom a section 1115 waiver provides inpatient hospital insurance coverage benefits directly to that patient on that day. Medicaid provides inpatient hospital insurance benefits directly to specific individuals. Patient days associated with a section 1115 waiver program that does not similarly directly provide inpatient hospital insurance coverage to specific individuals are not comparable to the days of patients receiving traditional Medicaid benefits, and therefore, should not be counted in the numerator of the Medicaid fraction. Accordingly, we are proposing to revise the regulation at §412.106(b)(4)(i) to state explicitly that a patient is deemed eligible for Medicaid for the purposes of the DSH calculation on a given day, and the corresponding patient day is included in the numerator of the Medicaid fraction, only if the patient is eligible for inpatient hospital services under an approved State Medicaid plan that includes coverage for inpatient hospital care on that day or directly receives inpatient hospital insurance coverage on that day under a waiver authorized under section 1115(a)(2) of the Act. We also propose to remove §412.106(b)(4)(ii) in its entirety as this provision would no longer be needed.

We invite comments on this proposal.

G. Hospital Readmissions Reduction Program: Proposed Updates and Changes (§§412.150 through 412.154)

1. Statutory Basis for the Hospital Readmissions Reduction Program

Section 1886(q) of the Act, as amended by section 15002 of the 21st Century Cures Act, establishes the Hospital Readmissions Reduction Program. Under the Hospital Readmissions Reduction Program, Medicare payments under the acute inpatient prospective payment system (IPPS) for discharges from an applicable hospital, as defined under section 1886(d) of the Act, may be reduced to account for certain excess readmissions. Section 15002 of the 21st Century Cures Act requires the Secretary to compare hospitals with respect to the proportion of beneficiaries who are dually eligible for Medicare and full-benefit Medicaid (“dually eligible beneficiaries”) in determining the extent of excess readmissions. We refer readers to the FY 2016 IPPS/LTCN PPS final rule (80 FR 49530 through 49531) and the FY 2018 IPPS/LTCN PPS final rule (82 FR 38221 through 38240) for a detailed discussion of and additional information on the statutory history of the Hospital Readmissions Reduction Program.

2. Regulatory Background

We refer readers to the following final rules for detailed discussions of the regulatory background and descriptions of the current policies for the Hospital Readmissions Reduction Program:

• FY 2012 IPPS/LTCN PPS final rule (76 FR 51660 through 51676);
• FY 2013 IPPS/LTCN PPS final rule (77 FR 53374 through 53401);
• FY 2014 IPPS/LTCN PPS final rule (78 FR 50649 through 50676);
• FY 2015 IPPS/LTCN PPS final rule (79 FR 50024 through 50048);
• FY 2016 IPPS/LTCN PPS final rule (80 FR 49530 through 49543);
• FY 2017 IPPS/LTCN PPS final rule (81 FR 56973 through 56979);
• FY 2018 IPPS/LTCN PPS final rule (82 FR 38221 through 38240);
• FY 2019 IPPS/LTCN PPS final rule (83 FR 41431 through 41439);
• FY 2020 IPPS/LTCN PPS final rule (84 FR 42380 through 42390); and
• FY 2021 IPPS/LTCN PPS final rule (85 FR 58844 through 58847).

We have also codified certain requirements of the Hospital Readmissions Reduction Program at 42 CFR 412.152 through 412.154. In section V.G.15 of the preamble of this proposed rule, we are proposing to update the regulatory text at 42 CFR 412.154(f)(4) to add the phrase “or successor website” in order to reflect the change in the CMS website name from Hospital Compare to Care Compare.

3. Summary of Proposed Policies for the Hospital Readmissions Reduction Program

In section V.G.5 of the preamble of this proposed rule, we are proposing to adopt a cross-program measure suppression policy due to the impact of the COVID–19 public health emergency (PHE) on quality measurement and pay-for-performance programs including the Hospital Readmissions Reduction Program. In section V.G.6 of the preamble of this proposed rule, we are proposing to suppress the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) following Pneumonia Hospitalization measure (NQF #0306) and we provide information on technical specification updates for the remaining five condition/procedure-specific readmission measures to exclude COVID–19 diagnosed patients from the measure denominators beginning in fiscal year (FY) 2023. In section V.G.8 of the preamble of this proposed rule, we are proposing to use the MedPAR data to determine aggregate payments that aligns with the applicable period for FY 2022. In section V.G.9 of the preamble of this proposed rule, we are proposing the automatic adoption of the use of MedPAR data corresponding to the applicable period beginning with the FY 2023 program year and all subsequent program years, unless otherwise specified by the Secretary. In section V.G.13 of the preamble of this proposed rule, we are clarifying our Extraordinary Circumstances (ECE) Policy. In section V.G.14 of the preamble of this proposed rule, we request public comment on possible future stratification of results by race and ethnicity for our condition/procedure-specific readmission measures and by expansion of standardized data collection to additional social factors, such as language preference and disability status. We are also seeking comment in that section on mechanisms of incorporating other demographic characteristics into analysis that address and advance health equity, such as the potential to include administrative and self-reported data to measure co-occurring disability status.

We discuss these proposals in greater detail in this proposed rule.
4. Current Measures

The Hospital Readmissions Reduction Program currently includes six applicable conditions/procedures: acute myocardial infarction (AMI); heart failure (HF); pneumonia; elective primary total hip arthroplasty/total knee arthroplasty (THA/TKA); chronic obstructive pulmonary disease (COPD); and coronary artery bypass graft (CABG) surgery.

We continue to believe the measures we have adopted adequately meet the goals of the Hospital Readmissions Reduction Program. However, due to the potentially substantial relationship between pneumonia and COVID–19, we are proposing to suppress temporarily the inclusion of the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) following Pneumonia Hospitalization measure (NQF #0506) in the Hospital Readmissions Reduction Program measure set for the FY 2023 applicable period in section V.G.6 of this preamble. We are also providing information on technical specification updates for the remaining five condition/procedure-specific readmission measures to exclude COVID–19 diagnosed patients from the measure denominators, including the Hospital 30-Day All-Cause Risk-Standardized Readmission Rate (RSRR) following Acute Myocardial Infarction (AMI) Hospitalization (NQF #0505), the Hospital 30-Day, All-Cause, Unplanned, Risk-Standardized Readmission Rate (RSRR) Following Coronary Artery Bypass Graft (CABG) Surgery (NQF #2515), the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization (NQF #1891), the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Heart Failure Hospitalization (NQF #0330), and the Hospital-Level 30-Day, All-Cause Risk-Standardized Readmission Rate (RSRR) Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA) (NQF #1551) beginning in FY 2023.

We refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41431 through 41439) for more information about how the Hospital Readmissions Reduction Program supports CMS’ goal of bringing quality measurement, transparency, and improvement together with value-based purchasing to the hospital inpatient care setting through the Meaningful Measures Framework. We refer readers to section IX.A of this proposed rule, where we request information on potential actions and priority areas that would enable the continued transformation of our quality measurement enterprise toward greater digital capture of data and use of the FHIR standard (as described in that section). We also refer readers to section IX.B of this proposed rule, where we request information on potentially expanding the scope of our methodology to adjust outcomes measurement to recognize disparities in care, to include statistically estimated race and ethnicity information.

5. Proposed Flexibility for Changes That Affect Quality Measures During a Performance Period in the Hospital Readmissions Reduction Program

In previous rules, we have identified the need for flexibility in our quality programs to account for the impact of changing conditions that are beyond participating facilities’ or practitioners’ control. We identified this need because we would like to ensure that participants in our programs are not affected negatively when their quality performance suffers not due to the care provided, but due to external factors.

A significant example of the type of external factor that may affect quality measurement is the COVID–19 public health emergency (PHE), which has had and continues to have significant and ongoing effects on the provision of medical care in the country and around the world. The COVID–19 PHE impedes effective quality measurement in several ways. Changes to clinical practices to accommodate safety protocols for medical personnel and patients, as well as unpredicted changes in the number of stays and facility-level case mixes, have affected the data used in quality measurement and the resulting quality scores. Measures used in the Hospital Readmissions Reduction Program need to be evaluated to determine whether their specifications need to be updated to account for new clinical guidelines, diagnoses or procedure codes, and medications that we have observed during the PHEs. Additionally, COVID–19 prevalence is not identical across the country, meaning that the medical provider community has been affected differently at different times throughout the calendar year. Under those circumstances, we remain significantly concerned that the Hospital Readmissions Reduction Program’s quality measurement scores are distorted, which would result in skewed payment incentives and inequitable payments, particularly for hospitals that have treated more COVID–19 patients than others negatively when their patients that meets the underlying clinical standard but results in worse measured performance, and by extension, lower incentive payments in the Hospital Readmissions Reduction Program. As a result of the PHE, hospitals could provide care to their patients that meets the underlying clinical standard but results in worse measured performance, and by extension, lower incentive payments in the Hospital Readmissions Reduction Program. We are concerned that regional and temporal differences in COVID–19 prevalence during the FY 2022 Hospital Readmissions Reduction Program applicable period, which includes data collected during the PHE, have directly affected hospitals’ readmissions measure performance for the FY 2022 program year. Although regional and temporal differences in COVID–19 prevalence rates would not necessarily represent differences in the quality of care furnished by hospitals, they would directly affect the payment adjustments that these hospitals would receive and could result in an unfair and inequitable distribution in the assessment of penalties for excess readmissions. These inequities could be especially pronounced for hospitals that have treated a large number of COVID–19 patients.

Therefore, we are proposing to adopt a policy for the duration of the PHE for COVID–19 that would enable us to suppress the use of quality measures via adjustment to the Hospital Readmissions Reduction Program’s scoring methodology if we determine that circumstances caused by the COVID–19 PHE have affected those measures and the associated “excess readmissions” calculations significantly. Under this proposed policy, if we determine that the suppression of a Hospital Readmissions Reduction Program measure is warranted for a Hospital Readmissions Reduction Program applicable period, we would propose to calculate the measure’s rates for that program year but then suppress the use of those rates to make changes to hospitals’ Medicare payments. In the Hospital Readmissions Reduction Program, this policy would have the effect of temporarily weighting the affected measure at 0% in the program’s scoring methodology until adjustments are made, the affected period of the performance period for the measure is no longer applicable to program scoring, or the measure is
removed entirely through rulemaking. We would still provide feedback reports to hospitals as part of program activities, including to inform their quality improvement activities, and to ensure that they are made aware of the changes in performance rates that we have observed. We would also publicly report suppressed measures’ data with appropriate caveats noting the limitations of the data due to the PHE for COVID–19.

In developing this proposed policy, we considered what circumstances caused by the PHE for COVID–19 would affect a quality measure significantly enough to warrant its suppression in a value-based purchasing program. We believe that significant deviation in measured performance that can be reasonably attributed to the PHE is a significant indicator of changes in clinical conditions that affect quality measurement. Similarly, we believe that a measure may be focused on a clinical topic or subject that is proximal to the disease, pathogen, or other health impacts of the PHE. As has been the case during the COVID–19 PHE, we believe that rapid or unprecedented changes in clinical guidelines and care delivery, potentially including appropriate treatments, drugs, or other protocols may affect quality measurement significantly and should not be attributed to the participating facility positively or negatively. We also note that scientific understanding of a particular disease or pathogen may evolve quickly during an emergency, especially in cases of new diseases or conditions. Finally, we believe that, as evidenced during the COVID–19 PHE, national or regional shortages or changes in health care personnel, medical supplies, equipment, diagnostic tools, and patient case volumes or facility-level case mix may result in significant distortions to quality measurement.

Based on these considerations, we developed a number of Measure Suppression Factors that we believe should guide our determination of whether to propose to suppress a Hospital Readmissions Reduction Program measure for one or more program years that overlap with the PHE for COVID–19. We are proposing to adopt these Measure Suppression Factors for use in the Hospital Readmissions Reduction Program, and for consistency, the following value-based purchasing programs: Hospital VBP Program, HAC Reduction Program, Skilled Nursing Facility Value-Based Purchasing Program, and End-Stage Renal Disease Quality Incentive Program. We believe that these Measure Suppression Factors will help us evaluate the Hospital Readmissions Reduction Program’s measures and that their adoption in the other value-based purchasing programs, as previously noted, will help ensure consistency in our measure evaluations across programs. The proposed Measure Suppression Factors are:

1. Significant deviation in national performance on the measure during the PHE for COVID–19, which could be significantly better or significantly worse compared to historical performance during the immediately preceding program years.
2. Clinical proximity of the measure’s focus to the relevant disease, pathogen, or health impacts of the PHE for COVID–19.
3. Rapid or unprecedented changes in: (i) Clinical guidelines, care delivery or practice, treatments, drugs, or related protocols, or equipment or diagnostic tools or materials; or (ii) the generally accepted scientific understanding of the nature or biological pathway of the disease or pathogen, particularly for a novel disease or pathogen of unknown origin.
4. Significant national shortages or rapid or unprecedented changes in: (i) Healthcare personnel; (ii) medical supplies, equipment, or diagnostic tools or materials; or (iii) patient case volumes or facility-level case mix.

We also considered alternatives to this proposed policy that could also fulfill our objective to not hold hospitals accountable for measure results under the Program that are distorted due to the PHE for COVID–19. As previously noted, the country continues to grapple with the effects of the COVID–19 PHE, and in March 2020, CMS issued a nationwide, blanket ECE for all hospitals and other facilities participating in our quality reporting and value-based purchasing programs in response to the COVID–19 PHE. This blanket ECE waived all data reporting requirements for Q1 and Q2 2020 data, including waiving the use of claims data and data collected through the CDC’s web-based surveillance system for this data period, and quality data collection resumed on July 1, 2020. We considered extending this blanket ECE for Q3 and Q4 2020. This alternative would protect providers and suppliers from having their quality data used for quality scoring purposes while those data are likely to have been affected significantly by the COVID–19 PHE. However, this option would make providers’ quality data collection and reporting to CMS no longer mandatory and would leave no comprehensive data available for us to provide confidential performance feedback to providers nor for monitoring and to inform decision-making for potential future programmatic changes, particularly as the PHE is extended.

As an alternative to the proposed quality measure suppression policy, we also considered not making any further changes to the Program and implementing it as previously specified. However, this alternative would mean assessing hospitals using quality measure data that has been significantly affected by the PHE for COVID–19. Additionally, given the geographic disparities in the COVID–19 PHE’s effects, implementation of the Program as previously finalized would place hospitals in regions that were more heavily affected by the PHE in Q3 and Q4 of 2020 at a disadvantage compared to hospitals in regions that were more heavily affected during the first two quarters of CY 2020.

We view the measure suppression proposal as a necessity to ensure that the Hospital Readmissions Reduction Program does not negatively or penalize hospitals based on factors that the Program’s measures were not designed to accommodate. We intend for this proposed policy to provide short-term relief to hospitals when we have determined that one or more of the Measure Suppression Factors warrants the suppression of one or more of the Program’s measures.

We invite public comments on this proposal for the adoption of a measure suppression policy for the Hospital Readmissions Reduction Program for the duration of the PHE for COVID–19, and also on the proposed Measure Suppression Factors that we developed for purposes of this proposed policy.

We are also inviting comment on whether we should consider adopting a measure suppression policy in the situation of a future national PHE, and if so, whether under such a policy, we should have the flexibility to suppress certain measures without specifically proposing to do so in rulemaking.

We also request comment on whether we should in future years consider adopting any form of regional adjustment for the proposed measure suppression policy that could take into account any disparate effects of circumstances affecting hospitals around the country that would prompt us to suppress a measure. For example, COVID–19 affected different regions of the country at different rates depending on factors like time of year, geographic density, State and local policies, and health care system capacity. In future years and for future PHEs, if they arise, we also request commenters’ feedback on whether we should, rather
than suppress a measure completely by assigning it a 0 percent weight, consider a suppression policy with more granular effects based on our assessment of the geographic effects of the circumstances, and if so, how region-based measure suppression could be accounted for within the program’s scoring methodology.

6. Proposals To Address the Impact of COVID–19 on Current Hospital Readmissions Reduction Program Measures

a. Background

On March 11, 2020, the WHO publicly declared COVID–19 a pandemic. On March 13, 2020, the President declared the COVID–19 pandemic a national emergency. On April 23, 2020, July 23, 2020, October 2, 2020, and January 7, 2021, the Secretary renewed the January 31, 2020 determination that a PHE for COVID–19 exists and has existed since January 27, 2020. The Secretary may renew the PHE every 90 days until such time as the Secretary determines that a public health emergency no longer exists.

In response to the PHE for COVID–19, we have conducted analyses on the six current Hospital Readmissions Reduction Program measures to determine whether and how COVID–19 may have impacted the validity of these condition/procedure-specific readmission measures. For the reasons discussed below, we have concluded that COVID–19 has severely impacted the validity of the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) following Pneumonia (NQF #0506) (hereafter referred to as the CMS 30-Day Pneumonia Readmission Measure (NQF #0506)), such that we cannot fairly assess this measure. The FY 2022 CMS 30-Day Pneumonia Readmission Measure (NQF #0506) applicable period is July 1, 2017 through June 30, 2020. However, in the September 2020 IFC, we noted that we would except the use of any first or second quarter CY 2020 claims data from our calculation of performance for the applicable fiscal years (85 FR 54833). With this exception, the FY 2022 applicable period for this measure would only be affected by a shortened performance period (July 1, 2017 through December 1, 2019) that does not use data from the COVID–19 PHE. Therefore, we have determined that it is not necessary to suppress this measure for the FY 2022 program year. However, given the ongoing status of the PHE and the impact of COVID–19 on this measure data, we are proposing to temporarily suppress this measure for the FY 2023 program year.

Although COVID–19 has also impacted the five remaining condition/procedure-specific measures, we have concluded that this impact is less severe overall and can be further mitigated by updating the measure specifications to exclude Medicare beneficiaries with a secondary diagnosis of COVID–19. Therefore, we are not proposing to suppress the five remaining condition/procedure-specific measures for the FY 2022 program year but are updating their specifications instead. The measures are as follows:

• Hospital 30-Day All-Cause Risk-Standardized Readmission Rate (RSRR) Following Acute Myocardial Infarction (AMI) Hospitalization (NQF #0505);
• Hospital 30-Day, All-Cause, Unplanned, Risk-Standardized Readmission Rate (RSRR) Following Coronary Artery Bypass Graft (CABG) Surgery (NQF #2515);
• Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization (NQF #1891);
• Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Heart Failure Hospitalization (NQF #0330); and
• Hospital-Level 30-Day, All-Cause Risk-Standardized Readmission Rate (RSRR) Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA) (NQF #1551).

As discussed more fully later in this section, we are modifying these five condition/procedure-specific measures to exclude COVID–19 patients from the measure denominators as technical updates to the measure specifications.

b. Proposal To Suppress the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) for the FY 2023 Program Year

We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51664 through 51666), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50649 through 50676), the FY 2015 IPPS/LTCH PPS final rule (79 FR 50024 through 50048), and the FY 2016 IPPS/LTCH PPS final rule (80 FR 24490 through 24492) for information on our policies that relate to refinement of the readmissions measures and related methodology for the current applicable conditions/procedures.

In this proposed rule, we are proposing to suppress temporarily the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) for the FY 2023 program year under proposed Measure Suppression Factor 2, clinical proximity of the measure’s focus to the relevant disease or pathogen, particularly for a novel disease or pathogen of unknown origin, due to the COVID–19 PHE. COVID–19 is caused by the SAR-CoV–2 virus, which begins when respiratory droplets containing the virus enter an individual’s upper respiratory tract.940 Pneumonia has been identified as a typical characteristic of individuals infected with COVID–19,941 and our analysis based on data from CY 2020 shows that a substantial portion of the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) cohort includes admissions with a COVID–19 diagnosis. In addition, almost all of the admissions with a COVID–19 diagnosis have a principal diagnosis of sepsis; observed mortality rates for these admissions are extremely high and are substantially higher than admissions without a COVID–19 diagnosis. We are concerned that these higher mortality rates may also potentially distort readmissions data for the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) cohort. Based on the currently available data for this measure, there is a high percentage of Medicare beneficiaries with a secondary diagnosis of COVID–19 in the measure cohort during CY 2020.

In accordance with the previously discussed measure suppression policy, we would weight the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) at zero percent in the Hospital Readmissions Reduction Program payment methodology such that claims data for this measure would not be used to assess that hospital’s performance. Additionally, we would continue to monitor the claims that form the basis for this measure’s calculation to evaluate the effect of the circumstances on quality measurement and to determine the appropriate policies in the future. We would also continue to provide feedback reports to hospitals as part of program activities to ensure that they are made aware of the changes in performance rates that are observed and to inform quality improvement activities.

As previously discussed, the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) FY 2022 applicable period is July 1, 2017 through June 30, 2020.

However, in the September 2020 IFC, we noted that we would not use any first or second quarter CY 2020 claims data to assess performance for the applicable fiscal years (85 FR 54833). With this exception, the FY 2022 applicable period for this measure would only be affected by a shortened performance period (July 1, 2017 through December 1, 2019) that does not use data impacted by the COVID–19 PHE. Therefore, we have decided that it is not necessary to suppress this measure for the FY 2022 program year. However, given the ongoing status of the PHE and the impact of COVID–19 on this measure’s data, we are proposing to temporarily suppress this measure for the FY 2023 program year.

Our analysis of the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) claims data showed that a higher proportion of patients had a secondary diagnosis of COVID–19 than other readmission measures and that these patients have a higher risk of mortality than the remainder of the admissions in the pneumonia measure cohort.

### Table V.G-2: Observed Readmissions Rate for Admissions with/without Secondary Diagnosis of COVID-19 Present on Admission (POA)

<table>
<thead>
<tr>
<th>Diagnosis of COVID-19 POA</th>
<th>Number of Admissions</th>
<th>Number of Readmissions</th>
<th>Observed 30-Day Readmissions Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions with Secondary Diagnosis of COVID-19 POA</td>
<td>6,421</td>
<td>793</td>
<td>12.4%</td>
</tr>
<tr>
<td>Admissions without a Diagnosis of COVID-19</td>
<td>59,435</td>
<td>9,389</td>
<td>15.8%</td>
</tr>
</tbody>
</table>

### Table V.G-1: Percent of COVID-19 Diagnoses in Readmission Measure Cohorts, March – September 2020

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonia</td>
<td>4.5</td>
<td>13.3</td>
<td>11.2</td>
<td>6.7</td>
<td>15.6</td>
<td>14.5</td>
<td>9.8</td>
</tr>
<tr>
<td>COPD</td>
<td>0.2</td>
<td>0.3</td>
<td>0.2</td>
<td>0.2</td>
<td>0.4</td>
<td>0.5</td>
<td>0.4</td>
</tr>
<tr>
<td>AMI</td>
<td>0.1</td>
<td>0.5</td>
<td>0.6</td>
<td>0.5</td>
<td>1.0</td>
<td>1.1</td>
<td>0.8</td>
</tr>
<tr>
<td>HF</td>
<td>0.1</td>
<td>0.4</td>
<td>0.6</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.7</td>
</tr>
<tr>
<td>THA/TKA</td>
<td>0.0</td>
<td>0.3</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>CABG</td>
<td>0.0</td>
<td>0.1</td>
<td>0.2</td>
<td>0.2</td>
<td>0.4</td>
<td>0.4</td>
<td>0.3</td>
</tr>
</tbody>
</table>

Data from September 2020 showed that although admission volumes for this cohort were substantially lower compared to admission volumes in September 2019, the observed readmission rates were statistically significantly higher compared to the observed readmission rates for this cohort during the same period in 2019.

Our analyses performed with available data demonstrated that COVID–19 patients captured in the pneumonia readmission measure cohort likely represent a distinct, severely ill group of patients for whom it may be difficult to adequately ascertain appropriate risk adjustment. We want to ensure that the measure reflects care provided by the hospital to Medicare beneficiaries admitted with pneumonia and we are concerned that excluding a significant proportion of all eligible patients may not accurately reflect the care provided, particularly given the unequal distribution of COVID–19 patients across hospitals over time. Suppressing this measure for the FY 2023 program year would address this concern.

As part of our analysis, we also evaluated the impact of suppressing the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) on hospital eligibility, program calculations, and payment for the FY 2023 program year. We note that we used data from the most recently completed performance period, FY 2021, to simulate removal of the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) as compared to the baseline data.\[942\] We found that the suppression of the CMS 30-Day Pneumonia Readmission Measure

\[942\] We note that, for purposes of this analysis, we removed the pneumonia readmission measure from program results calculated using a 29-month performance period.
Measure (NQF #0506) resulted in about a 1 percent decrease in eligibility for hospitals with at least 25 eligible discharges for any of the readmission measures under the Hospital Readmissions Reduction Program; the number of hospitals receiving a payment reduction was reduced by 5.17 percent; the penalty as a share of payments, or the weighted average payment reduction decreased by .13 percentage points; and the estimated Medicare savings decreased by 22.20 percent. Therefore, we believe that suppressing the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) measure would have a minimal negative impact on eligibility for the Hospital Readmissions Reduction Program, and the number of hospitals receiving payment reductions. Although we note that suppressing the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) measure would have larger impacts on the weighted average payment reduction and the estimated Medicare savings under the Hospital Readmissions Reduction Program, the reduction in penalty as a share of payments and estimated Medicare savings are expected based on the program methodology in which each measure contributes to the payment reduction additively, increasing the size of the payment reduction.

We are seeking comments on our proposal to suppress the current CMS 30-Day Pneumonia Readmission Measure (NQF #0506) for FY 2023.

c. Technical Measure Specification Update To Exclude COVID–19 Diagnosed Patients From All Other Condition/Procedure-Specific Readmission Measures Beginning With FY 2023

In the FY 2015 IPPS/LTCH final rule, we finalized a subregulatory process to incorporate technical measure specification updates into the measure specifications we have adopted for the Hospital Readmissions Reduction Program (79 FR 50039). We reiterated this policy in the FY 2020 IPPS/LTCH final rule, stating our continued belief that the subregulatory process is the most expeditious manner possible to ensure that quality measures remain fully up to date while preserving the public’s ability to comment on updates that so fundamentally change a measure that it is no longer the same measure that we originally adopted (84 FR 42385). Due to the impact of the COVID–19 PHE on the measures used in the Hospital Readmissions Reduction Program as described previously, we are updating these five condition/procedure-specific readmission measures to exclude COVID–19 diagnosed patients from the measure denominators. This technical update will modify these five condition/procedure-specific readmission measures to exclude certain ICD–10 Codes that represent patients with a secondary diagnosis of COVID–19 from the measure denominators, but will retain the measures in the program.

We believe that excluding COVID–19 patients from the measure denominator will ensure that these five condition/procedure-specific readmission measures continue to account for readmissions as intended and meet the goals of the Hospital Readmissions Reduction Program. Additional resources about the current measure technical specifications and methodology for the Hospital Technical specification of the current readmission measures are provided at our website in the Measure Methodology Reports (available at: http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Measure-Methodology.html). Readmissions Reduction Program are on the Resources web page of the QualityNet website (available at: https://www.qualitynet.org/dcs/ContentServer?c=Page&pageName=QNetPublic%2FPage%2FQNetTier3&cid=1228772412993).

7. Automatic Adoption of Applicable Periods for FY 2023 and Subsequent Years

We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51671) and the FY 2013 IPPS/LTCH PPS final rule (77 FR 53375) for discussion of our previously finalized policy for defining “applicable period”. In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41434 through 41435) and the FY 2020 IPPS/LTCH PPS final rule (84 FR 42387), we finalized the “applicable period” consistent with the definition specified at 42 CFR 412.152, to calculate the readmission payment adjustment factor for FY 2022 as the 3-year time period of July 1, 2017 through June 30, 2020.943

The “applicable period” is the 3-year period from which data are being collected in order to calculate excess readmission ratios (ERRs) and payment adjustment factors for the fiscal year; this includes aggregate payments for excess readmissions and aggregate payments for all discharges used in the calculation of the payment adjustment. The “applicable period” for dually eligible beneficiaries is the same as the “applicable period” that we otherwise adopt for purposes of the Hospital Readmissions Reduction Program.

In order to provide greater certainty around future applicable periods for the Hospital Readmissions Reduction Program, in the FY 2021 IPPS/LTCH final rule (85 FR 58846), we finalized the automatic adoption of applicable periods for FY 2023 and all subsequent program years for the Hospital Readmissions Reduction Program. We remind readers that, beginning in FY 2023, the applicable period for the Hospital Readmissions Reduction Program will be the 3-year period beginning 1 year advanced from the previous program fiscal year’s start of the applicable period. Under this policy, for all subsequent years, we will advance this 3-year period by 1 year unless otherwise specified by the Secretary, which we would convey through notice and comment rulemaking. Similarly, the applicable period for dual eligibility will continue to correspond to the applicable period for the Hospital Readmissions Reduction Program, unless otherwise specified by the Secretary. We refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58845 through 58846) for a more detailed discussion of this topic. We are not proposing any updates to this policy in this proposed rule.

8. Proposal To Identify Aggregate Payments For Each Condition/Procedure and All Discharges for FY 2022

When calculating the numerator (aggregate payments for excess readmissions), we determine the base operating DRG payment amount for an individual hospital for the applicable period for each condition/procedure using Medicare inpatient claims from the MedPAR file with discharge dates that are within the applicable period. Under our established methodology, we use the update of the MedPAR file for each Federal fiscal year, which is updated 6 months after the end of each Federal fiscal year within the applicable period, as our data source.

In identifying discharges for the applicable conditions/procedures to calculate the aggregate payments for excess readmissions, we apply the same exclusions to the claims in the MedPAR file as are applied in the measure methodology for each of the applicable conditions/procedures. For the FY 2022 applicable period, this includes the discharge diagnoses for each applicable condition/procedure based on a list of

---

943 Although the FY 2022 applicable period is July 1, 2017 through June 30, 2020, we note that first and second quarter data from CY 2020 is excluded from consideration for program calculation purposes due to the nationwide ECE that was granted in response to the COVID–19 PHE.
specific ICD–10–CM and ICD–10–PCS code sets, as applicable, for that condition/procedure, because diagnoses and procedure codes for discharges occurring on or after October 1, 2015 (FY 2016) began reporting under the ICD–10–CM and ICD–10–PCS code sets as opposed to the previous ICD–9–CM code set.

We identify Medicare fee-for-service (FFS) claims that meet the criteria as previously described for each applicable condition/procedure to calculate the aggregate payments for excess readmissions. This means that claims paid for under Medicare Part C (Medicare Advantage) are not included in this calculation. This policy is consistent with the methodology to calculate ERRs based solely on admissions and readmissions for Medicare FFS patients. Therefore, consistent with our established methodology, for FY 2022, we are proposing to continue to exclude admissions for patients enrolled in Medicare Advantage (MA), as identified in the Medicare Enrollment Database.

In this proposed rule, for FY 2022, we are proposing to determine aggregate payments for excess readmissions, and aggregate payments for all discharges using data from MedPAR claims with discharge dates that align with the FY 2022 applicable period. As we stated in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38232), we will determine the neutrality modifier using the most recently available full year of MedPAR data. However, we note that, for the purposes of the proposed FY 2022 readmissions payment adjustment factors for this proposed rule, we are using the proportion of dually eligible beneficiaries, excess readmission ratios, and aggregate payments for each condition/procedure and all discharges for applicable hospitals from the FY 2021 Hospital Readmissions Reduction Program applicable period (July 1, 2016 through June 30, 2019). For the FY 2022 program year, applicable hospitals will have the opportunity to review and correct calculations based on the FY 2022 applicable period of July 1, 2017 to December 1, 2019, before they are made public under our policy regarding reporting of hospital-specific information. Again, we reiterate that this period is intended to review the program calculations, and not the underlying data. For more information on the review and corrections process, we refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53399 through 53401).

In this proposed rule, we are proposing to continue to use MedPAR data corresponding to the applicable period for identifying discharges for the applicable conditions/procedures to calculate the aggregate payments for excess readmissions for the Hospital Readmissions Reduction Program. We are proposing to use the update of the MedPAR file for each Federal FY, which is updated 6 months after the end of each Federal FY within the applicable period, as our data source.

We welcome public comment on this proposal to identify aggregate payments for each condition/procedure and all discharges for the FY 2022 applicable period using corresponding MedPAR data.

9. Proposed Automatic Adoption of the Use of MedPAR Data Corresponding to the Applicable Period Beginning in FY 2023

We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53387 through 53390) for discussion of our previously finalized policy for the use of MedPAR claims data as our data source for determining aggregate payments for each condition/procedure and aggregate payments for all discharges during applicable periods. Most recently, in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58846), we finalized our policy on the continued use of the MedPAR data corresponding to the applicable period for the Hospital Readmissions Reduction Program calculations for the FY 2021 applicable period. We also finalized our policy to use the update of the MedPAR file for each Federal FY, which is updated 6 months after the end of each Federal FY within the applicable period, as our data source to identify discharges within the FY 2021 applicable period during that fiscal year. Similarly, in section V.G.8 of this proposed rule, we are proposing to use MedPAR data corresponding to the applicable period for the Hospital Readmissions Reduction Program calculations for the FY 2022 applicable period, and to use the update of the MedPAR file for each Federal FY, which is updated 6 months after the end of each Federal FY within the applicable period, as our data source.

We continue to believe that the use of MedPAR claims data is the appropriate source for identifying aggregate payments for each condition/procedure and all discharges during the corresponding applicable period for the Hospital Readmissions Reduction Program. In order to provide greater certainty around future applicable periods for the Hospital Readmissions Reduction Program, in the FY 2021 IPPS/LTCH final rule (85 FR 58845 through 58846), we finalized the automatic adoption of applicable periods for FY 2023 and all subsequent program years for the Hospital Readmissions Reduction Program. Under this policy, the 3-year applicable period will automatically advance by 1 year beginning in FY 2023. Because the MedPAR data used for the Hospital Readmissions Reduction Program calculations corresponds to the applicable period, we believe that the automatic adoption of the use of MedPAR data corresponding to the applicable period for Hospital Readmissions Reduction Program calculations each year will similarly streamline the process and provide additional clarity and consistency to the program.

Therefore, we are proposing to automatically adopt the use of MedPAR data corresponding to the applicable period for Hospital Readmissions Reduction Program calculations for FY 2022 and all subsequent program years. We propose that, beginning in FY 2023, the MedPAR data used to calculate aggregate payments for each condition/procedure and for all discharges will be the 3-year period beginning 1 year advanced from the previous program fiscal year’s MedPAR data corresponding to the applicable period for Hospital Readmissions Reduction Program calculations. Under this proposal, for all subsequent years, we would advance this 3-year period by 1 year unless otherwise specified by the Secretary, which we would convey through notice and comment rulemaking. We also propose to automatically adopt the use of the MedPAR file for each Federal FY, which is updated 6 months after the end of each Federal FY within the applicable period, as our data source, and to similarly advance this by 1 year from the previous program fiscal year.

We welcome public comment on this proposal.

10. Calculation of Payment Adjustment Factors for FY 2022

As we discussed in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38226),
Section 1886(q)(3)(D) of the Act requires the Secretary to group hospitals and apply a methodology that allows for separate comparisons of hospitals within peer groups, based on the proportion of dually eligible beneficiaries served by each hospital, in determining a hospital’s adjustment factor for payments applied to discharges beginning in FY 2019. Section 1886(q)(3)(D) also states that this methodology could be replaced through the application of subclause (E)(i), which states that the Secretary may take into account the studies conducted and the recommendations made by the reports required by section 2(d)(1) of the IMPACT Act of 2014 (Pub. L. 113–185; 42 U.S.C. 1395 note) with respect to risk adjustment methodologies. On June 29, 2020, the second Report to Congress by the Department’s Office of the Assistant Secretary for Planning and Evaluation (ASPE) on social risk and Medicare’s value-based purchasing programs came out. We are continuing our review of these recommendations and will address them as appropriate in future rulemaking.

We refer readers to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38226 through 38237) for a detailed discussion of the payment adjustment methodology. We are not proposing any changes to this payment adjustment calculation methodology for FY 2022 in this proposed rule.

11. Calculation of Payment Adjustment for FY 2022

Section 1886(q)(3)(A) of the Act defines the payment adjustment factor for an applicable hospital for a fiscal year as “equal to the greater of: (i) The ratio described in subparagraph (B) for the hospital for the applicable period (as defined in paragraph (5)(D)) for such fiscal year; or (ii) the floor adjustment factor specified in subparagraph (C).” Section 1886(q)(3)(B) of the Act, in turn, describes the ratio used to calculate the adjustment factor. Specifically, it states that the ratio is equal to 1 minus the ratio of aggregate payments for excess readmissions to aggregate payments for all discharges, scaled by the neutrality modifier. The calculation of this ratio is codified at 42 CFR 412.154(c)(1) and the floor adjustment factor is codified at 42 CFR 412.154(c)(2). Section 1886(q)(3)(C) of the Act specifies the floor adjustment factor at 0.97 for FY 2015 and subsequent fiscal years. Consistent with section 1886(q)(3) of the Act, codified in our regulations at 42 CFR 412.154(c)(2), for FY 2022, the payment adjustment factor will be either the greater of the ratio or the floor adjustment factor of 0.97. Under our established policy, the ratio is rounded to the fourth decimal place. In other words, for FY 2022, a hospital subject to the Hospital Readmissions Reduction Program would have an adjustment factor that is between 1.0 (no reduction) and 0.9700 (greatest possible reduction). For additional information on the FY 2022 payment calculation, we refer readers to the Hospital Readmissions Reduction Program information and resources available on our QualityNet website. We are not proposing any changes to our calculation of payment methodology in this proposed rule.

12. Overall Hospital Quality Star Ratings

In the CY 2021 OPPS/ASC final rule with comment period and interim final rule with comment period (85 FR 86193 through 86236), we finalized a methodology to calculate the Overall Hospital Quality Star Ratings (Overall Star Ratings). The Overall Star Ratings utilize data collected on hospital inpatient and outpatient measures that are publicly reported on a CMS website, including data from the Hospital Readmissions Reduction Program. We refer readers to section XVI. of the CY 2021 OPPS/ASC final rule for details (85 FR 86193 through 86236).

13. Extraordinary Circumstance Exception (ECE) Policy for the Hospital Readmissions Reduction Program

We refer readers to the CY 2016 IPPS/LTCH PPS final rule (80 FR 49542 through 49543) and the CY 2018 IPPS/LTCH PPS final rule (82 FR 38239 through 38240) for discussion of our Extraordinary Circumstances Exception (ECE) policy. In the CY 2016 IPPS/LTCH PPS final rule (80 FR 49542 through 49543), we adopted an ECE policy for the Hospital Readmissions Reduction Program, which recognized that there may be periods of time during which a hospital is not able to submit data (from which readmission measures data are derived) in an accurate or timely fashion due to an extraordinary circumstance beyond its control. When adopting this policy, we noted that we considered the feasibility and implications of excluding data for certain measures for a limited period of time from the calculations for a hospital’s excess readmission ratios for the applicable performance period. By minimizing the data excluded from the program, the proposed policy enabled affected hospitals to continue to participate in the Hospital Readmissions Reduction Program for a given fiscal year if they otherwise continued to meet applicable measure minimum threshold requirements. We expressed the belief that this approach would help alleviate the burden for a hospital that might be adversely impacted by a natural disaster or other extraordinary circumstance beyond its control, while enabling the hospital to continue to participate in the Hospital Readmissions Reduction Program. We further observed that section 1886(q)(3)(D) of the Act permits the Secretary to determine the applicable period for readmissions data collection, and we interpreted the statute to allow us to determine that the period not include times when hospitals may encounter extraordinary circumstances. This policy was similar to the ECE policy for the Hospital Inpatient Quality Reporting (IQR) Program, as initially adopted in the CY 2012 IPPS/LTCH PPS final rule (76 FR 51651) and modified in the CY 2014 IPPS/LTCH PPS final rule (78 FR 50836) and the FY 2015 IPPS/LTCH PPS final rule (79 FR 50277). We also considered how best to align an extraordinary circumstance exception policy for the Hospital Readmissions Reduction Program with existing extraordinary circumstance exception policies for other IPPS quality reporting and payment programs, such as the Hospital Value-Based Purchasing (VBP) Program, to the extent feasible.

In the CY 2018 IPPS/LTCH PPS final rule (82 FR 38239), we modified the requirements for the Hospital Readmissions Reduction Program ECE policy to further align with the processes used by other quality reporting and VBP programs for requesting an exception from program reporting due to an extraordinary circumstance not within a provider’s control.

(2) Extraordinary Circumstance Exception (ECE) Granted in Response to the COVID–19 Public Health Emergency

On March 22, 2020, in response to COVID–19, we announced relief for clinicians, providers, hospitals, and facilities participating in Medicare quality reporting and value-based
purchasing programs.\textsuperscript{946} Specifically, we announced that we were excluding data for the first and second quarters of CY 2020. On March 27, 2020, we published a supplemental guidance memorandum that described the scope and duration of the ECEs we were granting under each Medicare quality reporting and VBP program.\textsuperscript{947} For the Hospital Readmissions Reduction Program, we stated that qualifying claims will be excluded from the measure calculations for January 1, 2020–March 31, 2020 (Q1 2020) and April 1, 2020–June 30, 2020 (Q2 2020) from the readmission measures.

(3) Updated Application of the ECE Granted in Response to COVID–19

On September 2, 2020, we published the Interim Final Rule with comment period (IFC), “Medicare and Medicaid Programs, Clinical Laboratory Improvement Amendments (CLIA), and Patient Protection and Affordable Care Act; Additional Policy and Regulatory Revisions in Response to the COVID–19 Public Health Emergency”\textsuperscript{(85 FR 54820). The IFC updated the ECE we granted in response to the PHE for COVID–19, for the Hospital Readmissions Reduction Program and several other quality reporting programs (85 FR 54827 through 54838).

In the IFC, we updated the previously announced application of our ECE policy for the Hospital Readmissions Reduction Program (85 FR 54832 through 54833) to the COVID–19 PHE to exclude any data submitted regarding care provided during the first and second quarters of CY 2020 from our calculation of performance for FY 2022, FY 2023, and FY 2024. We expressed concern that excess readmission ratios calculated using excepted claims data could affect the national comparability of these data due to the geographic differences of COVID–19 incidence rates and hospitalizations along with different impacts resulting from different State and local law and policy


\textsuperscript{948} We note that the QualityNet website (previously at QualityNet.cms.gov) has transitioned to a QualityNet.cms.gov.
Readmissions Reduction Program would exclude excepted data from Hospital Readmissions Reduction Program payment reduction calculations, it does not exempt hospitals from payment reductions under the Hospital Readmissions Reduction Program. Instead of relying upon our ECE policy, we are relying upon our authority under subsection 1886(q)(5)(A)(i) of the Act to determine the scope of “applicable conditions”, including the Secretary’s authority to utilize his own criteria to select measures to be used to calculate the excess readmission measure.

c. Clarification of the Impact of ECE Excluded Data for the Hospital Readmissions Reduction Program

In this proposed rule, we clarify the impact of data which has been excluded from the Hospital Readmissions Reduction Program due to the nationwide ECE that was granted in response to COVID–19 on upcoming Hospital Readmissions Reduction Program calculations. In order to determine and evaluate what kind of impact the nationwide ECE might have on the Hospital Readmissions Reduction Program, we conducted analyses to simulate the impact of an altered performance period on program eligibility and the resulting payment impacts to hospitals using pre-COVID–19 data from the FY 2020 Hospital Readmissions Reduction Program year. This analysis was intended to evaluate what patterns we might observe in Hospital Readmissions Reduction Program eligibility and payment as a result of excluding 6 months of data due to the ECE granted in response to the PHE for COVID–19. Our analysis found that there would be a minimal impact on hospitals when 6 months of data are removed from Hospital Readmissions Reduction Program calculations. We are performing additional analyses as CY 2020 data becomes available, and we will provide updated analyses as necessary when it becomes available. Although the FY 2022 applicable period is July 1, 2017 through June 30, 2020, due to the first and second quarter CY 2020 claims exception period and the 30-day window to identify readmissions, the period for calculating ERRs would be adjusted to July 1, 2017 through December 1, 2019. The period for calculating DRG payments would similarly be adjusted to July 1, 2017 through December 1, 2019 to align with the period to calculate ERRs. We would also note that CY 2019 data would be used to calculate the Neutrality Modifier, as that would be the most recent full year of data (since Q1 and Q2 CY 2020 data are excluded from FY 2020 data under the nationwide ECE). Finally, we note that each of the readmission measures uses claims data for the 12 months prior to the index hospitalization as well as index hospitalization claims for risk adjustment (76 FR 51672). Due to the nationwide ECE that was granted in response to the COVID–19 PHE, the condition/procedure-specific measures will use less than 12 months of data for risk adjustment for admissions between July 1, 2020 and June 30, 2021 during the FY 2023 applicable period. For example, if not for the COVID–19 PHE and subsequent nationwide ECE, an admission on July 1, 2020 would have included 12 months of prior claims data—a lookback period of July 2, 2019 through June 30, 2020—for risk adjustment. Because claims data from January 1, 2020 through June 30, 2020 are excluded under the nationwide ECE, an admission on July 1, 2020 will have a shorter lookback period of July 2, 2019 through December 31, 2019. Comorbidities from the index admission will continue to be used for all admissions.

In the FY 2020 IPPS/LTCH PPS final rule, we finalized our policy to adopt a subregulatory process to make nonsubstantive updates to payment adjustment factor components to facilitate the program’s operation when minor changes are required, but do not substantively impact the program’s previously finalized policies (84 FR 42386 through 42387). Based on our analysis showing that there would be a minimal impact when 6 months of data are removed from Hospital Readmissions Reduction Program eligibility and payment. Therefore, we believe that these updates to payment adjustment factor components are nonsubstantive and do not substantially impact the Hospital Readmissions Reduction Program’s previously finalized policies. Therefore, we would like to clarify that the impact of the two quarters of data that were excluded from the Hospital Readmissions Reduction Program due to the nationwide ECE that was granted in response to COVID–19 on payment adjustment factor components will be addressed through the subregulatory process. For more details on these subregulatory updates, we refer readers to the Hospital Specific Report (HSR) User Guide located on QualityNet website at: https://qualitynet.cms.gov/inpatient/hrrp/reports.

14. Request for Public Comment on Possible Future Stratification of Results by Race and Ethnicity for Condition/Procedure-Specific Readmission Measures

We are committed to achieving equity in health care outcomes for our beneficiaries by supporting providers in quality improvement activities to reduce health inequities, enabling them to make more informed decisions, and promoting provider accountability for health care disparities.949 As described in section IX.B of this proposed rule, in response to statute and policy reports from the Assistant Secretary for Planning and Evaluation (ASPE) of HHS and the National Academies of Science, Engineering, and Medicine to better account for social risk factors in the Medicare program,950 we have created two complementary methods to calculate disparities in condition/procedure-specific readmission measures (the CMS Disparity Methods). The first method (the Within-Hospital disparity method) promotes quality improvement by calculating differences in outcome rates among patient groups within a hospital while accounting for their clinical risk factors. This method also allows for a comparison of those differences, or disparities, across hospitals, so hospitals could assess how well they are closing disparity gaps compared to other hospitals. The second methodological approach (the Across-Hospital method) is complementary and assesses hospitals’ outcome rates for subgroups of patients across hospitals, allowing for a comparison among hospitals on their performance caring for their patients with social risk factors.

We refer readers to the technical report describing the CMS Disparity Methods in detail as well as the FY 2018 IPPS/LTCH PPS final rule (82 FR 38405 through 38407) and the posted Disparity Methods Updates and Specifications Report posted on the QualityNet website. The CMS Disparity Methods have thus far focused on dual eligibility, a proxy for social risk factors, as the main stratification variable for reporting


disparity results. These stratified data are provided in confidential Hospital Specific Reports (HSRs) for six condition/procedure-specific readmission measures and not publicly reported at this time. The disparity methods were designed to accommodate additional types of stratification variables, such as race and ethnicity, language preference, and disability status.

As described in section IX.B.3 of this proposed rule, we are seeking comment on potentially expanding our methods for stratified reporting of the Disparity Methods to better illuminate social disparities in populations served by Medicare-participating hospitals. As described in section IX.B.3 of the proposed rule, studies have shown that among Medicare beneficiaries, racial and ethnic minority persons often experience worse health outcomes, including more frequent hospital readmissions and procedural complications. We are, in particular, exploring the significance of racial and ethnic inequities, as well as other social factors such as language preference and disability status, in outcomes in the Hospital Readmissions Reduction Program.951 Expanding the disparity methods to include stratified results by both dual eligibility and race and ethnicity, as well as language preference and disability status, may enable a more comprehensive assessment of health equity and support initiatives to close the equity gap. We believe that hospitals will be able to use the results from the disparity methods to identify and develop strategies to promote health equity.

More specifically, we are seeking comment on expanding our efforts to provide hospital-level results of both the Within- and Across-Hospital Disparity Methods, as described in section IX.B.3 of this proposed rule, using indirectly estimated race and ethnicity, as well as additional social factors, such as language preference and disability status. Indirect estimation relies on a statistical imputation method for inferring a missing variable or improving an imperfect administrative variable using a related set of information that is more readily available.952 Imputed data are most commonly used at the population level, where aggregated results form a more accurate description of the population than existing, imperfect data sets. Section IX.B.3 of this proposed rule also summarizes the existing challenges in accurately determining race and ethnicity in our administrative data, the need for using advanced statistical methods for indirectly estimating race and ethnicity, and the previous algorithms developed to indirectly estimate race and ethnicity in our data. The expanded methods would be reported at the hospital-level, and provided to hospitals in confidential HSRs for six condition/procedure-specific readmission measures, stratified by both dual eligibility and race/ethnicity: (1) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Acute Myocardial Infarction (AMI) Hospitalization (NQF #0505); (2) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Coronary Artery Bypass Graft (CABG) Surgery (NQF #2515); (3) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization (NQF #1891); (4) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Heart Failure (HF) Hospitalization (NQF #0330); (5) Hospital-Level 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA) (NQF #1551); and (6) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Pneumonia Hospitalization (NQF #0506), for groups where results are technically feasible, adequately representative, and statistically reliable.953

To allow stakeholders an opportunity to become more familiar with, and gain comfort in interpreting stratified results using indirect estimation of race and ethnicity as described in section IX.B.3 of this proposed rule, hospitals would receive confidential HSRs containing results for the six condition/procedure-specific readmission measures, stratified by both dual eligibility and race/ethnicity in Spring 2022, prior to anticipated future publication of results in Spring 2023. Any proposal to publicly display stratified quality measure data for these six condition/procedure-specific readmission measures as previously described on the Care Compare website, or expand stratified reporting to additional social risk factors, would be made through future rulemaking.

We invite public comment on the following: (1) The possibility of confidentially reporting in HSRs stratified results using indirectly estimated race and ethnicity in addition to the currently reported results stratified using dual eligibility, for the six condition/procedure-specific readmission measures, and by expansion of standardized data collection to additional social factors, such as language preference and disability status; (2) the possibility of publicly reporting stratified results using both indirectly estimated race and ethnicity, and dual eligibility, publicly on Care Compare, after at least one year of confidential reporting and further rulemaking, for the six condition/procedure-specific measures; and (3) on possible mechanisms of incorporating other demographic characteristics into analysis that address and advance health equity, such as the potential to include administrative and self-reported data to measure co-occurring disability status.

15. Proposed Regulatory Updates (42 CFR 412.154)

We are proposing to update the references to CMS resources in regulation text. First, we note that we renamed our Hospital Compare website. It is now referred to as Care Compare and is available at: https://www.medicare.gov/care-compare. We are proposing to revise our regulations for the Hospital Readmissions Reduction Program at 42 CFR 412.154(f)(4) to reflect the new website name. We propose to amend CFR 412.154(f)(4), by adding the phrase “or successor website” so that the text reads “Hospital Compare website or successor website.”954

We invite public comment on our proposal.

H. Hospital Value-Based Purchasing (VBP) Program: Proposed Policy Changes

Section 1886(o) of the Act requires the Secretary to establish a hospital value-based purchasing program (the Hospital VBP Program) under which value-based

953 Although we are proposing to suppress the CMS 30-Day Pneumonia Readmission Measure (NQF #0506) in section V.G.6 of this proposed rule, we note that the measure is not being proposed for removal and is therefore still considered one of the six condition/procedure-specific readmission measures included in the Hospital Readmissions Reduction Program.
954 While the statute refers to Hospital Compare, the name has been changed to Care Compare. Now called Care Compare, the website continues to serve the purpose of displaying quality data submitted for the Hospital Readmissions Reduction Program.
incentive payments are made in a fiscal year (FY) to hospitals that meet performance standards established for a performance period for such fiscal year. Both the performance standards and the performance period for a fiscal year are to be established by the Secretary.

For more of the statutory background and descriptions of our current policies for the Hospital VBP Program, we refer readers to our codified requirements for the Hospital VBP Program at 42 CFR 412.160 through 412.167.

1. Proposed Flexibilities for the Hospital VBP Program in Response to the Public Health Emergency (PHE) Due to COVID–19

a. Proposed Measure Suppression Policy for the Duration of the PHE for COVID–19

In previous rules, we have identified the need for flexibility in our quality programs to account for the impact of changing conditions that are beyond participating hospitals’ control. We identified this need because we would like to ensure that participants in our programs are not affected negatively when their quality performance suffers not due to the care provided, but due to external factors.

A significant example of the type of external factor that may affect quality measurement is the COVID–19 public health emergency (PHE), which has had, and continues to have, significant and ongoing effects on the provision of medical care in the country and around the world. The COVID–19 pandemic and associated PHE has impeded effective quality measurement in many ways. Changes to clinical practices to accommodate safety protocols for medical personnel and patients, as well as unpredicted changes in the number of stays and facility-level case mixes, have affected the data used in quality measurement and the resulting quality scores. Measures used in the Hospital VBP Program need to be evaluated to determine whether their specifications need to be updated to account for new clinical guidelines, diagnosis or procedure codes, and medication changes that we have observed during the PHE. Additionally, because COVID–19 prevalence is not consistent across the country, hospitals located in different areas have been affected differently at different times throughout the pandemic. Under those circumstances, we remain significantly concerned that Hospital VBP Program quality measure scores that are calculated using data submitted during the PHE for COVID–19 are distorted and will result in skewed payment incentives and inequitable payments, particularly for hospitals that have treated more COVID–19 patients than others.

It is not our intention to penalize hospitals based on measure scores that we believe are distorted by the COVID–19 PHE and, thus, not reflective of the quality of care that the measures in the Hospital VBP Program were designed to assess. As previously discussed, the COVID–19 PHE has had, and continues to have, significant and enduring effects on health care systems around the world, and affects care decisions, including those made on clinical topics covered by the Hospital VBP Program’s measures. As a result of the COVID–19 PHE, hospitals could provide care to their patients that meets the underlying clinical standard but results in worse measured performance, and by extension, lower incentive payments in the Hospital VBP Program. We are also concerned that regional differences in COVID–19 prevalence during the performance periods for the FY 2022 and FY 2023 Hospital VBP Programs, which include CY 2020 data, have directly affected hospitals’ measure scores for the FY 2022 and FY 2023 Hospital VBP program years. Although these regional differences in COVID–19 prevalence rates do not reflect differences in the quality of care furnished by hospitals, they directly affect the value-based incentive payments that these hospitals are eligible to receive and could result in an unfair and inequitable distribution of those incentives. These inequities could be especially pronounced for hospitals that have treated a large number of COVID–19 patients.

Therefore, we are proposing to adopt a policy for the duration of the PHE for COVID–19 that would enable us to suppress the use of data for a number of measures if we determine that circumstances caused by the COVID–19 PHE have affected those measures and the resulting Total Performance Scores significantly. We are also proposing, as described more fully in section V.H.1.b. of this rule, to suppress all of the measures in the Person and Community Engagement, Safety, and Efficiency and Cost Reduction Domains for the FY 2022 program year because we have determined that circumstances caused by the COVID–19 PHE have affected those measures significantly, and to adopt a special scoring and payment rule for that program year. Under this special rule for FY 2022, which we would codify in our regulations at 412.166, we would calculate measure rates for all measures, including the measures we are proposing to suppress, but would only calculate achievement and improvement scores for the measures in the Clinical Outcomes Domain, which we are not proposing to suppress. We would also calculate domain scores for the Clinical Outcomes Domain but because that domain is only weighted at 25 percent of the TPS and we would have no other domain scores, we would not calculate total performance scores (TPSs) for hospitals. Finally, we would reduce each hospital’s base-operating DRG payment amount by 2 percent, as required under section 1886(o)(7)(B) of the Act, but because no hospital would receive a TPS for FY 2022, we would assign to each hospital a value-based incentive payment percentage that results in a value-based incentive payment amount that matches the 2 percent reduction to the base operating DRG payment amount. The net result of these payment adjustments would be neutral for hospitals. That is, a hospital’s base operating DRG payment amount would remain unchanged for FY 2022.

We would still provide confidential feedback reports to hospitals on their FY 2022 measure rates on all measures to ensure that they are made aware of the changes in performance rates that we have observed. We would also publicly report Q3 and Q4 2020 data with appropriate caveats noting the limitations of the data due to the PHE for COVID–19. We note that, due to operational complications associated with extended deadlines for Q3 2020 data submissions for the HCAHPS and HAI measures granted in response to the system issues as well as the proposed changes in the FY 2022 scoring methodology,955 and in order to allow enough time for the appropriate notice and comment period process, we may not be able to provide hospitals with the feedback reports for FY 2022 until after August 1, 2021. We intend to provide hospitals with these feedback reports for FY 2022 as soon as possible and estimate that we will be able to provide reports before the end of 2021.

For the FY 2023 program year, we are proposing to suppress one measure, MORT–30–PN because we have determined that circumstances caused by the COVID–19 PHE have affected this measure significantly, but we are not proposing to adopt a special scoring and payment rule for that program year. Instead, the scoring and

We developed a number of Measure Suppression Factors that we believe should guide our determination of whether to propose to suppress a Hospital VBP Program measure for one or more program years where the baseline or performance period of the measure overlaps with the PHE for COVID–19. We are proposing to adopt these Measure Suppression Factors for use in the Hospital VBP Program and, for consistency, the following other value-based purchasing programs: Hospital Readmissions Reduction Program, HAC Reduction Program, and Skilled Nursing Facility Value-Based Purchasing Program. We believe that these Measure Suppression Factors will help us evaluate the Hospital VBP Program’s measures and that their adoption in the other value-based purchasing programs, as previously noted, will help ensure consistency in our measure evaluations across programs. The proposed Measure Suppression Factors are:

5. Significant deviation in national performance on the measure during the PHE for COVID–19, which could be significantly better or significantly worse compared to historical performance during the immediately preceding program years.

6. Clinical proximity of the measure’s focus to the relevant disease, pathogen, or health impacts of the PHE for COVID–19.

7. Rapid or unprecedented changes in: (i) Clinical guidelines, care delivery or practice, treatments, drugs, or related protocols, or equipment or diagnostic tools or materials; or (ii) the generally accepted scientific understanding of the nature or biological pathway of the disease or pathogen, particularly for a novel disease or pathogen of unknown origin.

8. Significant national shortages or rapid or unprecedented changes in: (i) Healthcare personnel; (ii) medical supplies, equipment, or diagnostic tools or materials; or (iii) patient case volumes or facility-level case mix.

We also considered alternatives to this proposed policy that could fulfill our objective to not penalize hospitals for measure results that are distorted due to the PHE for COVID–19. As previously noted, the country continues to grapple with the effects of the COVID–19 PHE, and in March 2020, CMS issued a nationwide, blanket Extraordinary Circumstances Exception (ECE) for all hospitals and other facilities participating in our quality reporting and value-based purchasing programs in response to the COVID–19 PHE. This blanket ECE excepted data reporting requirements for Q1 and Q2 2020 data, including excepting the use of claims data, HCAHPS survey data, and data collected through the CDC’s web-based surveillance system for this data period. Quality data collection resumed on July 1, 2020. We considered extending this blanket ECE for Q3 and Q4 2020. This alternative would have protected hospitals from having their quality data used for quality scoring purposes if those data were affected significantly by the COVID–19 PHE. However, this option would have made hospital quality data collection and reporting to CMS no longer mandatory and would have left us with no comprehensive data available for use in providing confidential performance feedback to hospitals or monitoring for purposes of deciding whether programmatic changes are necessary to adequately respond to the PHE.

As an alternative to the proposed quality measure suppression policy, we also considered not suppressing any measures under the Hospital VBP Program. However, this alternative would mean assessing hospitals using quality measure data that has been significantly affected by the COVID–19 PHE. Additionally, given the geographic disparities in the COVID–19 PHE’s effects, we believe that if we do not adopt a policy to suppress measures that have been significantly affected by the PHE for COVID–19, hospitals in regions that are more heavily impacted by the COVID–19 PHE will be at a disadvantage when compared to hospitals in regions that are either not as heavily impacted, or are heavily impacted at a different point in the pandemic.

We view the measure suppression proposal as a necessity to ensure that the Hospital VBP Program does not reward or penalize hospitals based on circumstances caused by the PHE for COVID–19 that the Program’s measures were not designed to accommodate. We intend for this proposed policy to provide short-term relief to hospitals when we have determined that one or more of the Measure Suppression Factors warrants the suppression of one or more of the Program’s measures.

We invite public comment on this proposal for the adoption of a measure suppression policy for the Hospital VBP Program for the duration of the PHE for COVID–19, and also on the proposed Measure Suppression Factors that we developed for purposes of this proposed policy.

We are also inviting comment on whether we should consider adopting a measure suppression policy in the situation of a future national PHE, and if so, whether under such a policy, we should have the flexibility to suppress certain measures without specifically proposing to do so in rulemaking. We also request comment on whether we should in future years consider adopting any form of regional adjustment for the proposed measure suppression policy that could take into account any disparate effects of circumstances affecting hospitals around the country that would prompt us to suppress a measure. For example, COVID–19 affected different regions of the country at different rates depending on factors like time of year, geographic density, State and local policies, and health care shortages. In response to future PHEs, should they arise, we also request commenters’ feedback on
whether we should, rather than suppress a measure completely for scoring and payment purposes, consider a suppression policy with more granular effects based on our assessment of the geographic effects of the circumstances, and if so, how region-based measure suppression could be accounted for within the program’s scoring methodology.

b. Proposals To Suppress Specific Measures for the FY 2022 or FY 2023 Program Year

(1) Background

We have conducted analyses on all Hospital VBP Program measures with the exception of the CMS PSI 90 measure to determine whether and how COVID–19 has impacted the validity of these measures. Our findings from these analyses are discussed in this proposed rule. We did not conduct an analysis to determine the impact of COVID–19 on the CMS PSI 90 measure performance because the CMS PSI 90 measure would not be included in TPS calculations until FY 2023, and we are proposing to remove this measure from the Hospital VBP Program beginning with FY 2023. Based on those analyses, which are discussed in more detail in this proposed rule, we are proposing to suppress the following measures for the FY 2022 program year:

- Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) (NQF #0166)
- Medicare Spending Per Beneficiary—Hospital (NQF #2158)
- National Healthcare Safety Network (NHSN) Catheter-Associated Urinary Tract Infection (CAUTI) Outcome Measure (NQF #0138)
- National Healthcare Safety Network (NHSN) Central Line-Associated Bloodstream Infection (CLABSI) Outcome Measure (NQF #0139)
- American College of Surgeons—Centers for Disease Control and Prevention Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure (NQF #0753)
- National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Methicillin-resistant Staphylococcus aureus (MRSA) Bacteremia Outcomes Measure (NQF #1716)
- National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Clostridium difficile Infection (CDI) Outcome Measure (NQF #1717)

We are additionally proposing to suppress the Hospital 30-Day, All Cause, Risk Standardized Mortality Rate Following Pneumonia (PN) Hospitalization measure (NQF #0468) (MORT–30–PN) for the FY 2023 program year. Our proposals are described in more detail in this proposed rule.

(2) Proposal To Suppress the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Survey Measure (NQF #0166) for the FY 2022 Hospital VBP Program Year

We are proposing to suppress the HCAHPS measure for the FY 2022 program year under proposed Measure Suppression Factor 1, significant deviation in national performance on the measure during the PHE for COVID–19, which could be significantly better or significantly worse as compared to historical performance during the immediately preceding program years. We would calculate hospitals’ HCAHPS measure rates, but we would not use these measure rates to generate achievement or improvement points for this measure. Additionally, because the HCAHPS measure is the only measure included in the Person and Family Engagement domain, we would not calculate hospitals’ FY 2022 domain scores for the Person and Family Engagement domain. Participating hospitals would continue to report the measure’s data to CMS so that we can monitor the effect of the circumstances on quality measurement and determine the appropriate policies in the future. We would also continue to provide confidential feedback reports to hospitals as part of program activities to allow hospitals to track the changes in performance rates that we observe. We also intend to publicly report 2020 Q3 and Q4 2020 measure rate data where feasible and appropriately caveated.

Based on our analysis of HCAHPS data from Q1 2018 to Q3 2020, we have observed a notable decline in hospital-level HCAHPS scores. This decline is associated with the COVID–19 PHE in 2020. HCAHPS measure results are publicly reported as “top-box,” “bottom-box,” and “middle-box” scores, with “top-box” being the most positive response to HCAHPS Survey items.956

In order to detect the possible impact of the COVID–19 PHE on patients’ experience of hospital care, we conducted an “apples-to-apples” analysis in which we compared hospitals’ HCAHPS measure top-box scores for each quarter between Q1 2019 and Q3 2020 to their top-box scores for each of the same quarters one year earlier. For example, scores from Q1 2019 were compared to scores from Q1 2018, and scores from Q3 2020 (the most recent data available) were compared to scores from Q3 2019. The pre-COVID–19 quarters reveal the trend in HCAHPS scores prior to the onset of the pandemic. Each of these comparisons shown in Table V.H–1 includes the following:

a. Official HCAHPS top-box scoring that adjusts for survey mode and patient mix.

b. Restriction to hospitals with at least 25 completed surveys in each of the two matched quarters, so that the same types of hospitals that achieve 100 completes over four quarters for the Hospital VBP Program were used.

c. Comparison was restricted to the same hospitals one year earlier, so that differential participation of hospitals during the excepted reporting period (Q1 and Q2 2020) did not distort results.

d. Comparisons of parallel quarters were used, for example Q1 to Q1, to neutralize any seasonal effects.

Table V.H–1: Change in HCAHPS Top-Box scores in matched quarters, from Q1 2019 vs. Q1 2018, to Q3 2020 vs. Q3 2019.

Each column compares data from the named quarter to data from the same hospitals one year earlier, thus accounting for seasonal effects and patient-mix adjustment.

Results show that for Q1 2019 to Q4 2019, scores generally increased compared to the same quarter one year earlier, with changes of <1 top-box point. During the first COVID–19 impacted quarter, Q1 2020, score differences were mixed, with top-box scores with sometimes >1 compared to a year earlier. That is, changes between Q1 2019 and Q1 2020 were both positive and negative, with some changes exceeding 1 top-box point.

During the COVID–19 impacted quarters of Q2 2020 and Q3 2020, scores were always lower than a year earlier, generally by 1–3 top-box points. These changes are statistically significant in all but one instance, often with p<0.0001, meaning that changes were too large to occur by chance more than one time in 10,000. These changes stand in sharp contrast to the patterns of small improvement prior to Q2 2020 discharges.

We note that, in accordance with the ECE granted in response to the COVID–19 PHE discussed more fully in section V.H.7 of the preamble of this proposed rule, submission of CY 2020 Q1 and Q2 HCAHPS data was optional. However, as previously mentioned, comparisons are based on hospitals with at least 25 completed surveys in each of the two matched quarters. We do not believe that such a significant change in hospital performance from the immediately preceding years for this measure would exist in the absence of the PHE for COVID–19.

Additionally, in the September 2020 IFC, we noted that we would not use any Q1 or Q2 CY 2020 data to calculate TPSs for the applicable fiscal years (85 FR 54835). Because the FY 2022 performance period for the HCAHPS measure is January 1, 2020 through December 31, 2020, we would only have six months of data (July 1, 2020 through December 31, 2020) to calculate hospital performance on this measure. We believe that the third and fourth CY 2020 data would continue to demonstrate a deviation in national performance such that scoring this measure would not be representative of national or individual hospital quality of care.

We also believe that suppressing this measure for the FY 2022 program year will address concerns about the potential unintended consequences of penalizing hospitals that treated COVID–19 diagnosed patients. Therefore, we believe it is appropriate to suppress the HCAHPS measure for the FY 2022 Hospital VBP program year.

We welcome public comment on our proposal to suppress the HCAHPS measure for the FY 2022 program year. (3) Proposal To Suppress the Medicare Spending Per Beneficiary (MSPB) Measure (NQF #2158) for the FY 2022 Hospital VBP Program Year

Pursuant to the measure suppression policy discussion in section XX.H.1 of the preamble of this proposed rule, we are proposing to suppress the MSPB measure for the FY 2022 program year under proposed Measure Suppression Factor 4, significant national shortfalls or rapid or unprecedented changes in: (i) Healthcare personnel; (ii) medical supplies, equipment, or diagnostic tools or materials; or (iii) patient case volumes or facility-level case mix.

Based on our analysis, we have found that hospitalizations involving COVID–19 overall tend to have higher mortality rates, longer lengths of stay, and higher observed, payment-standardized costs than hospitalizations without COVID–19. Based on our analysis, we believe that these rapid changes in patient case mix have significantly affected the MSPB measure. Under this proposal, we would calculate hospitals' MSPB measure rates, but we would not use these measure rates to generate achievement or improvement points for this measure. Additionally, because the MSPB measure is the only measure included in the Efficiency and Cost Reduction domain, we would not
calculate hospitals’ FY 2022 Efficiency and Cost Reduction domain scores. Participating hospitals would continue to report the measure’s data to CMS so that we can monitor the effect of the circumstances on quality measurement and determine the appropriate policies in the future. We would also continue to provide confidential feedback reports to hospitals as part of program activities to ensure that they are made aware of the changes in performance rates that we observe. We also intend to publicly report Q3 and Q4 2020 data where feasible and appropriately caveated.

We note that in the September 2020 IFC, we stated that we would not use any first or second quarter CY 2020 data to calculate TPSs for the applicable fiscal years (85 FR 54835). We also note that the MSPB Hospital measure requires a 90-day lookback period to risk adjust the data appropriately. Third quarter CY 2020 data would require a lookback period of April 1, 2020 through July 1, 2020 for risk adjustments, but this period would fall within the excepted second quarter CY 2020 data. Therefore, for the FY 2022 program year, if we were to not suppress this measure, we would only be able to use hospital admissions data from Q4 of CY 2020 to calculate hospital scores for this measure.

We conducted an analysis to assess the impact of COVID–19 on hospitalizations and several specific components of the MSPB measure, including length of stay, cost of inpatient stay, and proxy MSPB hospital episode costs (as costs from 3 days prior to admission to 30 days post-discharge). This analysis used available data from January 1, 2020 through November 22, 2020. We focused on MS–DRGs as the unit of analysis and comparison to examine the impact of COVID–19 generally on hospitalizations. We applied several data processing steps to ensure data completeness; we restricted the study population to beneficiaries with continuous enrollment in Parts A and B and with Medicare as primary payer, and who had data from three days prior to the inpatient hospital admission through 30 days post-hospital discharge during the study period. The analysis also required inpatient claims with a valid discharge date and a positive standard allowed amount to ensure that only claims that were paid under Medicare Parts A and B were captured. These data processing steps ensured the appropriate beneficiary population and data validity.

During the study period, we observed significant patient case mix due to COVID–19. The majority of hospitals (67 percent) had at least one COVID–19 hospitalization, defined as the presence of a principal or secondary diagnosis for COVID–19 on the inpatient claim. There were nearly 250,000 COVID–19 hospitalizations, representing around 4 percent of all hospitalizations during the study period. As the study period ended in November 2020, our analysis does not capture increases in COVID–19 hospitalizations over the winter period. The MS–DRG with the highest share of COVID–19 hospitalizations was MS–DRG 177 for Respiratory Infections and Inflammations with Major Complication or Comorbidity (MCC), with over 70 percent of those admissions involving COVID–19. The effect of COVID–19 was not limited to respiratory care; in fact, we observed COVID–19 diagnoses across MS–DRGs in 25 Major Diagnostic Categories (MDCs) out of a total of 26 MDCs. The only MDC without any COVID–19 hospitalizations was MDC 15 for Newborns & Other Neonates with Conditions Originating in Perinatal Period. These results indicate that there were substantial changes to the patient case mix across the full range of care provided by hospitals due to the influx of patients with COVID–19.

Beyond the prevalence of COVID–19 amongst the hospital inpatient population, we tested the extent to which hospitalizations with COVID–19 appeared different from those without COVID–19. We found that the mean and median lengths of stays where patients were diagnosed with COVID–19 were longer compared to patients not diagnosed with COVID–19 (mean of 10 days compared to 7 days, respectively and median of 7 days compared to 5 days, respectively). We also examined various cost metrics, using payment-standardized amounts which remove the effect of the increased DRG payment weighting for hospitalizations with a COVID–19 diagnosis on the inpatient claim. The mean cost of hospitalizations with a COVID–19 diagnosis on the inpatient claim was 44 percent greater than the mean cost of hospitalizations without a COVID–19 diagnosis ($21,939 compared to $15,203). Our analysis was limited to examining inpatient hospitalizations, rather than the MSPB measure, as we focused on gaining a broader understanding of the changes to healthcare due to COVID–19. However, we did conduct some analyses to understand the post-discharge period as the MSPB measure includes a 30-day post discharge period. We compared the cost of a proxy episode by looking at the costs from 3 days prior to admission, the hospitalization, and 30 days after discharge for patients with and without a COVID–19 diagnosis on the inpatient claim. The mean cost for patients diagnosed with COVID–19 was 27 percent more than a hospital episode where the patient was not diagnosed with COVID–19 ($37,217 compared to $29,309). These results indicate that the differences in the cost of hospitalizations with and without COVID–19 extend to the post-discharge period. We believe that suppressing this measure for the FY 2022 program year would mitigate concerns about the impact of the significant changes in facility-level case mix and costs due to the PHE for COVID–19 on hospital performance and national comparability for this measure. Therefore, we believe it is appropriate to suppress the MSPB measure for the FY 2022 program year.

We welcome public comment on our proposal to suppress the MSPB measure for the FY 2022 program year.

(4) Proposal To Suppress the Five Healthcare-Associated Infection (HAI) Safety Measures for the FY 2022 Hospital VBP Program Year

In this proposed rule, we are proposing to suppress the five HAI Safety measures (CAUTI, CLABSI, Colon and HysterectomySSI, MRSA, and CDI) for the FY 2022 program year under proposed Measure Suppression Factor 1, significant deviation in national performance on the measures, which could be significantly better or significantly worse compared to historical performance during the immediately preceding program years. We are concerned that the COVID–19 PHE affected measure performance on the current HAI measures such that we will not be able to score hospitals fairly or reliably on them. We would calculate hospitals’ five HAI measure rates, but we would not use these measure rates to generate achievement or improvement points for these measures. Additionally, because these five measures make up the entirety of the Safety domain, we would not calculate hospitals’ FY 2022 Safety domain score. Participating hospitals would continue to report the measure’s data to the CDC and CMS so that we can monitor the effect of the circumstances on quality measurement and determine the appropriate policies in the future. We would continue to provide confidential feedback reports to hospitals as part of program activities to ensure that they are made aware of the changes in performance rates that we observe. We also intend to publicly report CY 2020 Q3 and Q4 data where feasible and appropriately caveated. The previously established FY 2022 performance period for the HAI
measures was January 1, 2020 through December 31, 2020. We note that in the September 2020 IFC, we stated that we would not use any first or second quarter CY 2020 data to calculate TPSs for the applicable fiscal years because we were concerned with the national comparability of these data due to the geographic differences of COVID–19 incidence rates and hospitalizations along with different impacts resulting from different State and local law and policy changes implemented in response to COVID–19 (85 FR 54835). However, we continue to be concerned about measure performance and the national comparability of such performance during the third and fourth quarter of CY 2020.

The CDC conducted an analysis which found that the CLASBI, CAUTI, and MRSA measures had statistically significant measure rate increases during the third and fourth quarter of CY 2020 as compared to the third and fourth quarter of CY 2019. We believe that this distortion in measure performance may be due to circumstances unique to the effects of the pandemic such as staffing shortages and turnover, patients that are more susceptible to infections due to increased hospitalization stays, and longer indwelling catheters and central lines. In a March comparison run between Q4 2019 and Q4 2020 data for hospitals that submitted complete data for both quarters, there was a national percent change in the standardized infection ratio (SIR), or the primary summary measure used by the NHSN to track healthcare associated infections, of 48.1 percent for CLASBI, 18.8 percent for CAUTI and 33.8 percent for MRSA. For the SSI and CDI measures, neither measure had a statistically significant increase or decrease during the third and fourth quarter of CY 2020 as compared to the third and fourth quarter of CY 2019. For the SSI measure, the low reporting volume is due to the decrease in surgeries during the pandemic, while the CDI measure has historically been declining. Though the pandemic may not have the same clinical impact on the SSI and CDI measures, we believe that due to the low reporting volume of these two measures and for maintaining consistency of the full CDC NHSN HAI measure set, all five CDC NHSN HAI measures should be suppressed instead of just 3 of them. We are also concerned that if we were to suppress three measures in the Safety domain while continuing to score hospitals on the remaining two measures in the Safety domain, the Safety domain scores may be significantly better or significantly worse than in immediately preceding years. Therefore, we believe it is appropriate to suppress all five HAI measures in the Safety domain to ensure an accurate and reliable national comparison of performance on hospital safety.

In determining how to address the impact of the COVID–19 PHE on the five HAI measures, we also considered extending the FY 2022 performance periods for the five HAI measures so that they would include one full year of measure data. However, because the performance period for the FY 2022 program year began on January 1, 2020, we believe that changing the performance period after January 1, 2020 would be unfair and confusing for hospitals. Using data from CY 2019 would require us to score hospitals on data on which they have already been scored in the FY 2021 program year. Additionally, using data from CY 2021 would require us to change the performance periods for all future program years in order to avoid using the same data twice. Scoring hospitals on the same data for multiple program years may cause hospitals that have improved on their performance to be penalized more than once or allow hospitals that have not improved to be rewarded on their performance more than once. Further, changing the performance periods for these measures could incur administrative costs on hospitals that would be required to change their reporting systems and workflows.

We also considered making no modifications to the program and suppressing no measure data from CY 2020 for assessing FY 2022 HAI measure scores as an additional alternative to using the measure suppression policy. This alternative would be operationally easier to implement but would mean assessing participating hospitals using quality measure data that has been impacted by the COVID–19 PHE without additional adjustments to the measures. Additionally, given the geographic disparities in the COVID–19 PHE’s effects, this policy could place hospitals in regions that were hit harder by the pandemic at a disadvantage. Ultimately, we believe that our proposal to suppress the HAI measure data from CY 2020 more fairly addresses the impact of the COVID–19 PHE on participating hospitals. Therefore, in order to maintain program consistency and avoid scoring hospitals on the same data for more than one program year, we are proposing to suppress all five HAI measures in the Safety domain for the entire FY 2022 program year.

We welcome public comment on our proposal to suppress the five HAI measures for the FY 2022 program year.

(5) Proposal To Suppress the Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Pneumonia Hospitalization (MORT–30–PN) Measure (NQF #0468) for the FY 2023 Program Year

In this proposed rule, we are proposing to suppress the MORT–30–PN measure beginning with the FY 2023 program year under proposed Measure Suppression Factor 2, clinical proximity of the measure’s focus to the relevant disease pathogen or health impacts of the national PHE. COVID–19 is caused by SAR–CoV–2, which begins when respiratory droplets containing the virus enter an individual’s upper respiratory tract. Pneumonia has been identified as a typical characteristic of individuals infected with COVID–19,857 and our analysis based on data from CY 2020 shows that a substantial portion of the MORT–30–PN measure cohort includes admissions with either a principal or a secondary diagnoses of COVID–19. In addition, almost all of the admissions with a COVID–19 diagnosis have a principal diagnosis of sepsis; observed mortality rates for these admissions are extremely high and are substantially higher than admissions without a COVID–19 diagnosis. Finally, observed mortality rates in admissions without a COVID–19 diagnosis (using data from April 2020 through June 2020) are higher than observed mortality rates from the prior year. For the currently available data for this measure, there is a high percentage of Medicare beneficiaries with a secondary diagnosis of COVID–19 in the measure cohort during CY 2020. We would calculate hospitals’ MORT–30–PN measure rates, but we would not use these measure rates to generate achievement and improvement points for this measure. We will continue to monitor the claims that form the basis for this measure’s calculations to evaluate the effect of the circumstances on quality measurement and to determine the appropriate policies in the future. We would also continue to provide confidential feedback reports to hospitals as part of program activities to ensure that they are made aware of the changes in performance rates that we observe.

As previously discussed, the FY 2022 MORT–30–PN performance period is September 1, 2017 through June 30, 2020. However, in the September 2020 IFC, we noted that we would not use any first or second quarter CY 2020 data to calculate TPSs for the applicable fiscal years (85 FR 54835). With this
exception, the FY 2022 performance period for this measure would only be affected by a shortened performance period (September 1, 2017 through December 31, 2019) that does not use data from the COVID–19 PHE. Therefore, we have decided that it is not necessary to suppress this measure for the FY 2022 program year. However, given the ongoing status of the PHE and the impact of COVID–19 on this measure data, we are proposing to suppress this measure for the FY 2023 program year.

Our analysis of the MORT–30–PN measure data showed that the MORT–30–PN cohort had a higher proportion of patients with a secondary diagnosis of COVID–19 than the cohorts for the other condition-specific mortality measures used in the Hospital VBP Program, and that these patients have a higher risk of mortality than the remainder of the patients included in the pneumonia measure cohort.

### Table V.H-2: Percent of COVID-19 Diagnoses in Mortality Measure Cohorts, March – September 2020

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonia</td>
<td>6.7</td>
<td>20.9</td>
<td>15.4</td>
<td>8.6</td>
<td>13.9</td>
<td>13.3</td>
<td>9.4</td>
</tr>
<tr>
<td>COPD</td>
<td>0.3</td>
<td>0.4</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.6</td>
<td>0.5</td>
</tr>
<tr>
<td>AMI</td>
<td>0.1</td>
<td>0.6</td>
<td>0.7</td>
<td>0.5</td>
<td>0.9</td>
<td>1.1</td>
<td>0.8</td>
</tr>
<tr>
<td>HF</td>
<td>0.2</td>
<td>0.5</td>
<td>0.7</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.6</td>
</tr>
<tr>
<td>THA/TKA</td>
<td>0.0</td>
<td>0.4</td>
<td>0.2</td>
<td>0.1</td>
<td>0.1</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>CABG</td>
<td>0.0</td>
<td>0.3</td>
<td>0.2</td>
<td>0.2</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>Stroke</td>
<td>0.0</td>
<td>1.1</td>
<td>1.2</td>
<td>0.8</td>
<td>1.2</td>
<td>1.2</td>
<td>1.3</td>
</tr>
</tbody>
</table>

### Table V.H-3: Observed Mortality Rate for Admissions with Secondary Diagnosis of COVID-19 POA for the MORT-30-PN Measure, April 2020 – June 2020

<table>
<thead>
<tr>
<th></th>
<th>Number of Admissions</th>
<th>Number of Deaths</th>
<th>Observed 30-Day Mortality Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions with Secondary</td>
<td>10,285</td>
<td>5,059</td>
<td>49.2%</td>
</tr>
<tr>
<td>Diagnosis of COVID-19 POA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admissions without a Diagnosis</td>
<td>61,418</td>
<td>11,845</td>
<td>19.3%</td>
</tr>
</tbody>
</table>

Data from September 2020 also showed that although admission volumes for the MORT–30–PN cohort were substantially lower compared to admission volumes for this cohort in September 2019, the observed mortality rates for this cohort were statistically significantly higher in September 2020 when compared to the observed mortality rates for this cohort during the same period in 2019.

Our analyses also demonstrated that almost all of the COVID–19 patients captured in the MORT–30–PN measure...
cohort likely represent a distinct, severely ill group of patients (with a mortality rate of 49.2 percent as compared 23.8 percent for patients without a COVID–19 diagnosis) for whom it may be difficult to adequately ascertain appropriate risk adjustment. In addition, our analyses found that the odds ratio of mortality for COVID–19 as a risk factor was very high (4.67, 95 percent confidence interval: 4.45–4.90) as compared to other diagnoses such as metastatic cancers, acute leukemia, and other severe cancers (2.16, 95 percent confidence interval: 2.05–2.28), protein-calorie malnutrition (1.64, 95 percent confidence interval: 1.57–1.71), dementia or specified brain disorders (1.58, 95 percent confidence interval: 1.51–1.64), and chronic liver disease (1.50, 95 percent confidence interval: 1.37–1.64). We also calculated the Pearson correlation between the change in observed 30-day pneumonia mortality rate and Medicare COVID–19 burden (defined as COVID–19–related hospitalizations per Medicare beneficiary) for both a 3-months (March-May) and 12-months (June-May) period. That is, we calculated the change in observed 30-day pneumonia mortality rates between March-May 2019 (3-months) and March-May 2020, and also between June 2018-May 2019 and June 2019-May 2020 (12-months). We then assessed the correlation between these changes in observed pneumonia mortality rates and Medicare COVID–19 burden. Changes in observed 30-day pneumonia mortality rates were highly and statistically significantly correlated with Medicare COVID–19 burden when analyzing the 3-month and 12-month periods (Pearson correlation of 0.77 and 0.69, respectively).

We considered whether we could exclude patients with a diagnosis of COVID–19 from the MORT–30–PN cohort but we determined suppression would provide us with additional time and additional months of data potentially impacted by COVID–19 to more thoroughly evaluate a broader range of alternatives, given the month-to-month variation in the percent of COVID–19 diagnoses as shown in Table V.H–3. We want to ensure that the measure reflects care provided by the hospital to Medicare beneficiaries admitted with pneumonia and we are concerned that excluding a significant proportion of all eligible patients may not accurately reflect the care provided, particularly given the unequal distribution of COVID–19 patients across hospitals over time. We believe that suppressing this measure beginning with the FY 2023 program year would address this concern.

As part of our analysis, we also evaluated the impact of suppressing the MORT–30–PN measure on hospital eligibility, program scoring, and payment for FY 2023. We used data from the most recently completed program year, FY 2021, to simulate removal of the MORT–30–PN measure as compared to the baseline data. For purposes of this simulation, we assumed that all other measures in the Hospital VBP Program would remain in the program and that hospital performance on these measures would remain unchanged from their historical performance on these measures. Based on this simulation, we found that the suppression of the MORT–30–PN measure resulted in less than a one percent decrease in overall eligibility for the Hospital VBP Program; the average TPS for participating hospitals decreased by 0.4 points; and the number of hospitals receiving a payment increase was reduced by one percentage point. Therefore, we believe that suppressing the MORT–30–PN measure minimizes negative impacts on the eligibility, scoring and payment distributions under the Hospital VBP Program and at this time we are not proposing to make any changes to the FY 2023 scoring methodology as a result.

We invite public comment on our proposal to suppress the MORT–30–PN measure for the FY 2023 program year.

2. FY 2022 Program Year Payment Details

Section 1886(o)(7)(B) of the Act instructs the Secretary to reduce the base operating DRG payment amount for a hospital for each discharge in a fiscal year by an applicable percent. Under section 1886(o)(7)(A) of the Act, the sum of these reductions in a fiscal year must equal the total amount available for value-based incentive payments for all eligible hospitals for the fiscal year, as estimated by the Secretary. We finalized details on how we would implement these provisions in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53571 through 53573), and we refer readers to that rule for further details. We note that in section V.H.1. of the preamble of this proposed rule, we are proposing to suppress several measures in the Hospital VBP Program for the FY 2022 Program Year. If these policies are finalized each hospital would receive the payment reduction for the Hospital VBP Program as required by statute, but every hospital would receive a value-based incentive payment amount that matches the payment reduction amount. However, if the policies in section V.H.1. of the preamble of this proposed rule are not finalized, the FY 2022 program year payment details would be as described in this section. Under section 1886(o)(7)(C)(v) of the Act, the applicable percent for the FY 2022 program year is two percent. Using the methodology we adopted in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53571 through 53573), we estimate that the total amount available for value-based incentive payments for FY 2022 is approximately $1.9 billion, based on the December 2020 update of the FY 2020 MedPAR file. We intend to update this estimate for the FY 2022 IPPS/LTCH PPS final rule using the March 2021 update of the FY 2020 MedPAR file.

As finalized in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53571 through 53576), we would utilize a linear exchange function to translate this estimated amount available into a value-based incentive payment percentage for each hospital, based on its Total Performance Score (TPS). We would then calculate a value-based incentive payment adjustment factor to apply to the base operating DRG payment amount for each discharge occurring in FY 2022, on a per-claim basis. Applying the current scoring methodology without any modifications reflecting the proposals in this proposed rule, we are publishing proxy value-based incentive payment adjustment factors in Table 16 associated with this proposed rule (which is available via the internet on the CMS website). The TPSs from the FY 2021 program year are the basis for the proxy factors. These FY 2021 performance scores are the most recently available performance scores hospitals have been given the opportunity to review and correct. We note that the FY 2021 TPSs were calculated using measure data from before the PHE due to COVID–19 was declared. Actual TPSs for the FY 2022 program year may be more variable than the FY 2021 TPSs due to the impacts of the COVID–19 PHE on FY 2022 data. We refer readers to sections V.H.1. and V.H.6. of the preamble of this proposed rule for additional information on the impacts of the COVID–19 PHE on the Hospital VBP Program. The slope of the linear exchange function used to calculate the proxy value-based incentive payment adjustment factors in Table 16 is 2.6527024687. This slope, along with the estimated amount

---

Footnote 258: We note that this analysis did not include the MORT–30–CABG measure because it is not included in the Hospital VBP Program until FY 2022 (81 FR 56996 through 56998).
available for value-based incentive payments, is also published in Table 16.

If our proposals to suppress measures and award each hospital a value-based payment amount that matches the reduction to the base operating DRG payment amount are finalized, we will not update Table 16 as Table 16A in the final rule. However, if those proposals are not finalized, we would update this table as Table 16A in the final rule (which will be available on the CMS website) to reflect changes based on the

If our proposals to suppress measures and award each hospital a value-based payment amount that matches the reduction to the base operating DRG payment amount are finalized, we will also update the slope of the linear exchange function used to calculate those updated proxy value-based incentive payment adjustment factors. The updated proxy value-based incentive payment adjustment factors for FY 2022 would continue to be based on historic FY 2021 program year TPSs because hospitals will not have been given the opportunity to review and correct their actual TPSs for the FY 2022 program year before the FY 2022 IPPS/LTCH PPS final rule is published.

If our proposals to suppress measures and award each hospital a value-based payment amount that matches the reduction to the base operating DRG payment amount are finalized, we will also not post Table 16B (which we typically do to display the actual value-based incentive payment adjustment factors, exchange function slope, and estimated amount available for the applicable program year, after hospitals have been given an opportunity to review and correct their actual TPSs).

3. Retention and Removal of Quality Measures

a. Retention of Previously Adopted Hospital VBP Program Measures and Relationship Between the Hospital IQR and Hospital VBP Program Measure Sets

In the FY 2013 IPPS/LTCH PPS final rule (77 FR 53592), we finalized a policy to retain measures from prior program years for each successive program year, unless otherwise proposed and finalized. In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41440 through 41441), we finalized a revision to our regulations at 42 CFR 412.164(a) to clarify that once we have complied with the statutory prerequisites for adopting a measure for the Hospital VBP Program, the statute does not require that the measure continue to remain in the Hospital IQR Program.

We are not proposing any changes to these policies in this proposed rule.

b. Measure Removal Factors for the Hospital VBP Program

In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41441 through 41446), we finalized measure removal factors for the Hospital VBP Program, and we refer readers to that final rule for details. We are not proposing any changes to these policies in this proposed rule.

c. Proposed Removal of the CMS Patient Safety and Adverse Events Composite (CMS PSI 90) (NQF #0531) Beginning With The FY 2023 Program Year

We are proposing to remove the CMS Patient Safety and Adverse Events Composite (CMS PSI 90) measure (NQF #0531) from the Hospital VBP Program under removal Factor 8—the costs associated with the measure outweigh the benefit of the measure to the program. Factor 8 is a measure removal factor finalized in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41441 through 41446).

We adopted the CMS PSI 90 composite measure (NQF #0531) in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38251 through 38256) beginning with the FY 2023 program year to encourage improvement in patient safety for all hospitals, and we also adopted a performance period for that program year that runs from July 1, 2019 through June 30, 2021. We continue to consider patient safety a high priority, but because the CMS PSI 90 measure is also used in the HAC Reduction Program, we believe removing this measure from the Hospital VBP Program will reduce the provider and clinician costs associated with tracking duplicative measures across programs. We noted in prior rulemaking that we would continue to monitor the HAC Reduction Program and Hospital VBP Program and analyze the impact of our measure selection, including any unintended consequences with having a measure in more than one program, and would revise the measure set in one or both programs if needed (82 FR 38255). Since then, we have considered the impact of having the CMS PSI 90 measure in both the HAC Reduction Program and the Hospital VBP Program. We note that the modified version of the CMS PSI 90 measure was adopted for use in the FY 2018 HAC Reduction Program as finalized in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57020). While both programs will require reporting on the same measure beginning in FY 2023, we have reconsidered whether the differences in the scoring methodologies for measuring performance in these two programs presents unneeded complexity in tracking duplicative measures while accounting for differences in applicability.

For example, the scoring methodology for the CMS PSI 90 measure for the Hospital VBP Program includes comparing an individual hospital’s performance during the performance period to all hospitals’ performance during an established baseline period and a hospital can be awarded improvement points by comparing an individual hospital’s performance during the performance period to that same individual hospital’s performance from the baseline period; the HAC Reduction Program assesses performance using an equally weighted average of scores across measures included in the program and does not require a baseline period for scoring purposes. Hospitals may also incur additional cost to monitor measure performance and potential payment impact in two programs, given that each program has a different scoring methodology that applies to the same measure. We also believe removing the CMS PSI 90 measure from the Hospital VBP Program is appropriately responsive to feedback from stakeholders who have noted that using the same measure in different programs creates additional administrative costs to hospitals rather than further incentivizing improved performance.

We have noted in previous years that we believe costs are multifaceted and include not only the burden associated with reporting, but also the costs CMS incurs to implement and maintain the measure in the program (83 FR 41442). Maintaining this measure in both the HAC Reduction Program and the Hospital VBP Program and applying two different scoring methodologies requires CMS to expend resources for analyzing performance and developing duplicative feedback reports for its use in both programs. For example, due to the differences in scoring methodologies between the HAC Reduction Program and the Hospital VBP Program, CMS maybe required to utilize and maintain multiple versions of the CMS PSI software used to calculate PSIs and the composite measure across the two programs. Further, since 2017, we have worked to reduce regulatory burden on hospitals, lower health care costs, and enhance patient care by streamlining the quality reporting and value-based purchasing programs through the Meaningful Measures Framework. We refer readers to the FY 2019 IPPS/LTCH final rule for a discussion of the Meaningful Measures Framework (83 FR 41147). Two of the primary
objectives of the Meaningful Measures Framework are to include quality measures for which there is significant opportunity for improvement and to minimize the level of burden for providers. We recognize that the Hospital VBP Program currently uses five other patient safety-focused measures (CAUTI, CLABSIs, CDI, MRSA, and SSI) that are also used under the HAC Reduction Program. As noted in prior rulemaking, we continue to monitor and analyze measures that are in both the HAC Reduction Program and Hospital VBP Program to assess the impact of having a measure in more than one program and to revise the measure set in one or both programs if needed (82 FR 38255). We focused our initial analysis on the impact of the CMS PSI 90 measure in the Hospital VBP Program rather than the other five patient safety-focused measures because we believe it would be least burdensome to remove now, before hospitals are required to begin reporting on the measure for the FY 2023 Hospital VBP program year. Furthermore, as previously noted, the Hospital VBP Program requires that the software used to calculate measure scores between the baseline and performance period must match, whereas the HAC Reduction Program does not include baseline periods and can therefore more easily implement measure scoring. At this time, we believe there is significant opportunity for the remaining five patient safety-focused measures to continue encouraging improvement in patient safety in both the Hospital VBP Program and the HAC Reduction Program and will continue to monitor and analyze the impact of these measures and assess the need for revisions in future rulemaking. We note that the Hospital VBP Program uses the same processes adopted by the HAC Reduction Program for hospitals to review and correct data for the CDC NHSN HAI measures and relies on HAC Reduction Program validation to ensure the accuracy of CDC NHSN HAI measure data used in the Hospital VBP Program.

Accordingly, for the previously discussed reasons, we are proposing to remove the CMS PSI 90 measure from the Hospital VBP Program beginning with the FY 2023 program year.

We welcome public comment on this proposal to remove the CMS PSI 90 measure beginning with FY 2023.

d. Updates to the Specifications of Four Condition-Specific Mortality Measures and One Procedure-Specific Complication Measure Beginning With the FY 2023 Program Year To Exclude Patients Diagnosed With COVID–19

We are updating the following four condition-specific mortality measures and one procedure-specific complication measure to exclude patients with either principal or secondary diagnoses of COVID–19 from the measure denominators beginning with the FY 2023 program year.

• Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Acute Myocardial Infarction (AMI) Hospitalization (NQF #0230)

• Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Coronary Artery Bypass Graft (CABG) Surgery (NQF #2255)

• Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization (NQF #1893)

• Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Heart Failure Hospitalization (NQF #0229)

• Hospital-Level Risk-Standardized Complication Rate Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA) (NQF #1550)

We note that we do not need to update these measures for the FY 2022 program year because the only data that would have been affected by the PHE for COVID–19 is from the first and second quarters of CY 2020, which are excluded under the ECE we granted in response to the PHE for COVID–19.

The measures we have adopted for the Hospital VBP Program are not currently specified to account for how the presence of a COVID–19 might impact the quality of care assessed by those measures. To determine this impact, we analyzed the relationship between COVID–19 and the measure cohorts for each of the applicable conditions/procedures for the Hospital VBP Program measures, as previously listed. For these measures, we calculated the Pearson correlation between changes in observed 30-day mortality rates and Medicare COVID–19 burden (defined as COVID–19-related hospitalizations per Medicare beneficiary) for both a 3-month (March-May) and 12-month (June-May) period. That is, we calculated the change in observed 30-day mortality rates between March-May 2019 (3-months) and March-May 2020, and also between June 2018-May 2019 and June 2019-May 2020 (12-months). We then assessed the correlation between these changes in observed mortality rates and Medicare COVID–19 burden. Changes in observed 30-day mortality rates showed no or modest but statistically significant correlation with Medicare COVID–19 burden when analyzing a 3-month period for the non-pneumonia measures in the Hospital VBP Program; however, there was no significant correlation for the non-pneumonia measures when analyzing the 12-month period. Because the performance periods for these measures are each three years and there is no significant correlation between the change in mortality with Medicare COVID–19 burden over a 12-month period (using COVID-impacted data through May 2020), we believe these measure scores will be valid and equitable for use in the Hospital VBP Program.

In the FY 2015 IPPS/LTCH PPS final rule, we finalized a technical updates policy which included a subregulatory process to incorporate technical measure specification updates into the measure specifications we have adopted for the Hospital VBP Program (79 FR 50077 through 50079). We stated that these non-substantive updates might include exclusions to a measure (citing as an example the addition of a hospice exclusion to the 30-day mortality measures) (79 FR 50078). Due to the impact of the COVID–19 PHE on the mortality and complications measures used in the Hospital VBP Program, as described previously, we are updating the MORT–30–AMI, MORT–30–CABG, MORT–30–COPD, MORT–30–HF, and COMP–HIP–KNEE measures to exclude admissions with either a principal or secondary diagnosis of COVID–19 from the measure denominators. This technical update will modify these four condition-specific mortality measures and one procedure-specific complication measure to exclude certain ICD–10 Codes that identify patients with a principal or secondary diagnosis of COVID–19 from the measure denominators but will retain the measures in the program.

We believe that excluding COVID–19 patients from the measure denominator beginning with the FY 2023 program year and subsequent years will ensure that these four condition-specific mortality measures and one procedure-specific complication measure continue to account for mortality and complication rates as intended and meet the goals of the Hospital VBP Program. Technical specifications of the Hospital VBP Program measures are provided on our website under the Measure Methodology Reports section (available at: http://www.cms.gov/Medicare/
Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Measure-Methodology.html). Additional resources about the measure technical specifications and methodology for the Hospital VBP Program are on the QualityNet website (available at: https://qualitynet.cms.gov/inpatient/hvbp).

e. Summary of Previously Adopted Measures for FY 2022 Through FY 2025 Program Years

We refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58849 through 58850) for summaries of previously adopted measures for the FY 2023 and FY 2024 program years, and to the tables in this section showing summaries of previously adopted measures for the FY 2023, FY 2024, and FY 2025 program years. We are proposing to remove the CMS PSI 90 measure from the Hospital VBP Program beginning with the FY 2023 program year. We are also proposing to suppress the HCAHPS, MSPB, and HAI measures for the FY 2022 program year, and to suppress the MORT–30–PN measure for FY 2023. We are not proposing to add new measures at this time. If these measure proposals are finalized as proposed, the Hospital VBP Program measure set for the FY 2022, FY 2023, FY 2024 and FY 2025 program years would, as of now, contain the following measures:
Table V.H-4: Summary of Measures for the FY 2022 Program Year if Measure Proposals are Finalized

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Domain/Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCAHPS*</td>
<td>Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) (including Care Transition Measure)</td>
<td>0166 (0228)</td>
</tr>
<tr>
<td><strong>Person and Community Engagement Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAUTI*</td>
<td>National Healthcare Safety Network (NHSN) Catheter-Associated Urinary Tract Infection (CAUTI) Outcome Measure</td>
<td>0138</td>
</tr>
<tr>
<td>CLABSI*</td>
<td>National Healthcare Safety Network (NHSN) Central Line-Associated Bloodstream Infection (CLABSI) Outcome Measure</td>
<td>0139</td>
</tr>
<tr>
<td>Colon and Abdominal Hysterectomy SSI*</td>
<td>American College of Surgeons – Centers for Disease Control and Prevention (ACS-CDC) Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure</td>
<td>0753</td>
</tr>
<tr>
<td>MRSA Bacteremia*</td>
<td>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Methicillin-resistant Staphylococcus aureus (MRSA) Bacteremia Outcome Measure</td>
<td>1716</td>
</tr>
<tr>
<td>CDI*</td>
<td>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Clostridium difficile Infection (CDI) Outcome Measure</td>
<td>1717</td>
</tr>
<tr>
<td><strong>Safety Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MORT-30-AMI</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Acute Myocardial Infarction (AMI) Hospitalization</td>
<td>0230</td>
</tr>
<tr>
<td>MORT-30-HF</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Heart Failure (HF) Hospitalization</td>
<td>0229</td>
</tr>
<tr>
<td>MORT-30-PN (updated cohort)</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Pneumonia Hospitalization</td>
<td>0468</td>
</tr>
<tr>
<td>MORT-30-COPD</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization</td>
<td>1893</td>
</tr>
<tr>
<td>MORT-30-CABG</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Coronary Artery Bypass Graft (CABG) Surgery</td>
<td>2558</td>
</tr>
<tr>
<td>COMP-HIP-KNEE</td>
<td>Hospital-Level Risk-Standardized Complication Rate Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA)</td>
<td>1550</td>
</tr>
<tr>
<td><strong>Clinical Outcomes Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSPB*</td>
<td>Medicare Spending Per Beneficiary (MSPB) – Hospital</td>
<td>2158</td>
</tr>
</tbody>
</table>

* Per section V.H.1.b. of the preamble of this proposed rule, we are proposing to suppress the HCAHPS, MSPB, and HAI measures for the FY 2022 program year.
Table V.H-5: Summary of Measures for the FY 2023, FY 2024, and FY 2025 Program Years if Measure Proposals are Finalized

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Domain/Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Person and Community Engagement Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCAHPS</td>
<td>Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) (including Care Transition Measure)</td>
<td>0166 (0228)</td>
</tr>
<tr>
<td><strong>Safety Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAUTI</td>
<td>National Healthcare Safety Network (NHSN) Catheter-Associated Urinary Tract Infection (CAUTI) Outcome Measure</td>
<td>0138</td>
</tr>
<tr>
<td>CLABSII</td>
<td>National Healthcare Safety Network (NHSN) Central Line-Associated Bloodstream Infection (CLABSII) Outcome Measure</td>
<td>0139</td>
</tr>
<tr>
<td>Colon and Abdominal Hysterectomy SSI</td>
<td>American College of Surgeons – Centers for Disease Control and Prevention (ACS-CDC) Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure</td>
<td>0753</td>
</tr>
<tr>
<td>MRSA Bacteremia</td>
<td>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Methicillin-resistant Staphylococcus aureus (MRSA) Bacteremia Outcome Measure</td>
<td>1716</td>
</tr>
<tr>
<td>CDI</td>
<td>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Clostridium difficile Infection (CDI) Outcome Measure</td>
<td>1717</td>
</tr>
<tr>
<td><strong>Clinical Outcomes Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MORT-30-AMI*</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Acute Myocardial Infarction (AMI) Hospitalization</td>
<td>0230</td>
</tr>
<tr>
<td>MORT-30-HF*</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Heart Failure (HF) Hospitalization</td>
<td>0229</td>
</tr>
<tr>
<td>MORT-30-PN*</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Pneumonia Hospitalization (updated cohort)</td>
<td>0468</td>
</tr>
<tr>
<td>MORT-30-COPD*</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization</td>
<td>1893</td>
</tr>
<tr>
<td>MORT-30-CABG*</td>
<td>Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Coronary Artery Bypass Graft (CABG) Surgery</td>
<td>2558</td>
</tr>
<tr>
<td>COMP-HIP-KNEE</td>
<td>Hospital-Level Risk-Standardized Complication Rate Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA)</td>
<td>1550</td>
</tr>
<tr>
<td><strong>Efficiency and Cost Reduction Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSPB</td>
<td>Medicare Spending Per Beneficiary (MSPB) – Hospital</td>
<td>2158</td>
</tr>
</tbody>
</table>

* Per section V.H.1.b (5) of the preamble of this proposed rule, we are proposing to suppress the MORT-30-PN measure for FY 2023 and exclude patients with a principal or secondary diagnosis of COVID-19 from the measure denominators in the remaining condition-specific mortality measures.
4. Previously Adopted Baseline and Performance Periods

a. Background

Section 1886(o)(4) of the Act requires the Secretary to establish a performance period for the Hospital VBP Program that begins and ends prior to the beginning of such fiscal year. We refer readers to the FY 2017 IPPS/LTCH PPS final rule (81 FR 56998 through 57003) for a previously finalized schedule for all future baseline and performance periods for previously adopted measures. We refer readers to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38256 through 38261), the FY 2019 IPPS/LTCH PPS final rule (83 FR 41466 through 41469), the FY 2020 IPPS/LTCH PPS final rule (84 FR 42393 through 42395), and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58850 through 58854) for additional previously adopted baseline and performance periods for the FY 2023 and subsequent program years. As discussed in sections V.H.3.c and V.H.1.b.(5), of the preamble of this proposed rule, we are proposing to remove the CMS PSI 90 measure and suppress the MORT–30–PN measure for the FY 2023 program year.

b. Proposal To Update the Baseline Periods for Certain Measures due to the Extraordinary Circumstances Exception Granted in Response to the COVID–19 PHE

(1) Background

We previously finalized baseline and performance periods for the FY 2023, 2024, 2025, 2026, and 2027 program years for all the measures included in the Hospital VBP Program, and we refer the reader to Table V.H–5 for those previously adopted baseline and performance periods. However, subsequent to finalizing those baseline periods, and as described further in section V.H.7., we granted an ECE in response to the COVID–19 PHE and stated that we will not use any first or second quarter of CY 2020 measure data that was voluntarily submitted for scoring purposes under the Hospital VBP Program.

If we simply removed the first and second quarter of CY 2020 measure data from the previously finalized baseline periods for the FY 2024 program year the baseline period for certain measures included in the Hospital VBP Program would only be six months, which is too short for purposes of calculating reliable baseline period scores. Accordingly, to ensure that we have a sufficient quantity of data for baselining purposes, we are proposing several updates to the baseline periods in this proposed rule for the FY 2024 program year. We believe that the previously established baseline periods for FY 2022, FY 2025, and FY 2026 program years are not impacted. There are also measures whose quantity of data for baselining purposes would be impacted by the ECE for the FY 2027 program year. However, for these measures, we believe 30 and 33-month baseline periods still provide enough data to reliably calculate baseline scores.

(2) Proposal To Update the FY 2024 Baseline Period for the Person and Community Engagement Domain Measure (HCAHPS Survey)

For the Person and Community Engagement Domain Measure (HCAHPS Survey), we finalized that the baseline period for the FY 2024 program year would be January 1, 2020 through December 31, 2020, but the removal of the January–June data would only leave us with six months of data. We believe that using at least a full year for data collection provides high levels of data accuracy and reliability for scoring hospitals on this measure (76 FR 2458). Therefore, we are proposing to use a baseline period of January 1, 2019 through December 31, 2019 so that we have a full year of data. This baseline period would be paired with the previously finalized performance period of January 1, 2022 through December 31, 2022. We believe using data from this period will provide sufficiently reliable data for evaluating hospital performance that can be used for FY 2024 scoring. We selected this revised data period because it would provide the most consistency for hospitals in terms of the comparable length to previous program years and the performance period, and it would capture a full year of data, including any seasonal effects.

We note that this new proposed baseline period would not include the third or fourth quarters of 2020, even though those quarters were not included in the ECE. However, our internal analyses indicates that the average number of completed surveys, and thus average reliability of the measure as a whole, is higher when based on four consecutive quarters as opposed to two quarters of HCAHPS data. In addition, because hospitals must report at least 100 completed surveys for a performance period to receive an HCAHPS measure score, reducing the baseline period from 12 to six months would result in fewer hospitals, especially smaller hospitals, being able to report for the performance period. We estimate that 11 percent of the hospitals that would be able to achieve 100 completed surveys over four quarters would be unable to do so in two quarters. As a result, we believe using four consecutive quarters of data for the baseline period will provide a higher level of data accuracy and reliability for scoring hospitals on the HCAHPS Survey.

(3) Proposal To Update the FY 2024 Baseline Period for the Safety Domain Measures

In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57000), we finalized the performance period for all measures in the Safety domain to run on the calendar year two years prior to the applicable program year and a baseline period that runs on the calendar year four years prior to the applicable program year for the FY 2019 program year and subsequent program years. For FY 2024, the baseline period for the Safety Domain Measures would be January 1, 2020 through December 31, 2020, but the removal of data impacted by the ECE from January to June of 2020 would only leave us with six months of data. We believe that using at least a full year for data collection provides high levels of data accuracy and reliability for scoring hospitals on measures (76 FR 2458). Therefore, we are proposing to update the FY 2024 baseline period for the Safety domain measures from January 1, 2020 through December 31, 2020 to January 1, 2019 through December 31, 2019 so that we have a full year of data. We believe using data from this period will provide sufficiently reliable data for evaluating hospital performance that can be used for FY 2024 scoring. We selected this data period because it would provide the most consistency for hospitals in terms of the comparable length to previous program years and the performance period, and it would capture a full year of data, including any seasonal affects.

(4) Proposal To Update the FY 2024 Baseline Period for the Efficiency and Cost Reduction Domain Measure

In the FY 2017 IPPS/LTCH PPS final rule (81 FR 56998), we finalized a 12-month performance period for the MSPB measure that runs on the calendar year two years prior to the applicable program year and a 12-month baseline period that runs on the calendar year four years prior to the applicable program year for the FY 2019 program year and subsequent years. For FY 2024, the baseline period for the MSPB measure would be January 1, 2021 through December 31, 2021, but the removal of data impacted by the ECE from January to June of 2020 would only
We believe that using at least a full year for data collection provides high levels of data accuracy and reliability for scoring hospitals on measures (76 FR 2458). Therefore, we are proposing to update the FY 2024 baseline period for the MSPB measure from January 1, 2020 through December 31, 2020 to January 1, 2019 through December 31, 2019 so that we have a full year of data. We believe using data from this period will provide sufficiently reliable data for evaluating hospital performance that can be used for FY 2024 scoring. We selected this data period because it would provide the most consistency for hospitals in terms of the comparable length to previous program years and the performance period, and it would capture a full year of data, including any seasonal affects.

We welcome public comment on our proposals to update the FY 2024 baseline periods for the measures included in the Person and Community Engagement, Safety, and Efficiency and Cost Reduction domains.

c. Summary of Previously Adopted and Newly Proposed Baseline and Performance Periods for the FY 2023 Through FY 2027 Program Years

The following tables summarize the baseline and performance periods that we have previously adopted and those that we are proposing to adopt.

Table V.H-6: Previously Adopted Baseline and Performance Periods for the FY 2023 Program Year

<table>
<thead>
<tr>
<th>Domain</th>
<th>Baseline Period</th>
<th>Performance Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person and Community Engagement</td>
<td>• HCAHPS</td>
<td>● January 1, 2019 – December 31, 2019</td>
</tr>
<tr>
<td></td>
<td>• COMP-HIP-KNEE</td>
<td>● April 1, 2013 – March 31, 2016</td>
</tr>
<tr>
<td>Safety*</td>
<td>• NHSN measures (CAUTI, CLABSI, Colon and Abdominal Hysterectomy SSI, CDI, MRSA Bacteremia)</td>
<td>● January 1, 2019 – December 31, 2019</td>
</tr>
</tbody>
</table>


** Per section V.H.1.b.(5). of the preamble of this proposed rule, we are proposing to suppress the MORT-30-PN measure for the FY 2023 program year.

† As discussed in section XX.X.3.c. of the preamble of this proposed rule, we are proposing to remove the CMS PSI-90 measure beginning with the FY 2023 program year.
**Table V.H-7: Previously Adopted and Newly Proposed Baseline and Performance Periods for the FY 2024 Program Year**

<table>
<thead>
<tr>
<th>Domain</th>
<th>Baseline Period</th>
<th>Performance Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person and Community Engagement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• HCAHPS</td>
<td>January 1, 2019 – December 31, 2019*</td>
<td>January 1, 2022 – December 31, 2022</td>
</tr>
<tr>
<td>Clinical Outcomes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• COMP-HIP-KNEE</td>
<td>April 1, 2014 – March 31, 2017</td>
<td>April 1, 2019 – March 31, 2022*</td>
</tr>
<tr>
<td>Safety+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• NHSN measures (CAUTI, CLABSI, Colon and Abdominal Hysterectomy SSI, CDI, MRSA Bacteremia)</td>
<td>January 1, 2019 – December 31, 2019*</td>
<td>January 1, 2022 – December 31, 2022</td>
</tr>
<tr>
<td>Efficiency and Cost Reduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• MSPB</td>
<td>January 1, 2019 – December 31, 2019*</td>
<td>January 1, 2022 – December 31, 2022</td>
</tr>
</tbody>
</table>

*These performance and baseline periods are impacted by the ECE granted by CMS on March 22, 2020, the scope of which was further explained in a CMS memorandum issued on March 27, 2020 (see CMS press release available at https://www.cms.gov/newsroom/press-releases/cms-announces-relief-clinicians-providers-hospitals-and-facilities-participating-quality-reporting; CMS memorandum available at https://www.cms.gov/files/document/guidance-memo-exceptions-and-extensions-quality-reporting-and-value-based-purchasing-programs.pdf), and then updated in the August 25th COVID-19 IFC (85 FR 54820). For more detailed information, see section V.H.7. of the preamble of this proposed rule. As discussed in section V.H.4.b. of the preamble of this proposed rule, we are proposing to update the baseline periods for the measures included in the Person and Family Engagement, Safety, and Efficiency and Cost Reduction domains.

**Per section V.H.1.b.(5). of the preamble of this proposed rule, we are proposing to suppress the MORT-30-PN measure for the FY 2023 program year.

+ As discussed in section V.H.3.c. of the preamble of this proposed rule, we are proposing to remove the CMS PSI-90 measure beginning with the FY 2023 program year.
<table>
<thead>
<tr>
<th>Domain</th>
<th>Baseline Period</th>
<th>Performance Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person and Community Engagement</td>
<td>• HCAHPS&lt;br&gt;• January 1, 2021 – December 31, 2021</td>
<td>• January 1, 2023 – December 31, 2023</td>
</tr>
<tr>
<td>Clinical Outcomes</td>
<td>• Mortality (MORT-30-AMI, MORT-30-HF, MORT-30-COPD, MORT-30-CABG, MORT-30-PN (updated cohort)**&lt;br&gt;• COMP-HIP-KNEE&lt;br&gt;• July 1, 2015 – June 30, 2018</td>
<td>• July 1, 2020 – June 30, 2023</td>
</tr>
<tr>
<td>Safety*</td>
<td>• NHSN measures (CAUTI, CLABSI, Colon and Abdominal Hysterectomy SSI, CDI, MRSA Bacteremia)&lt;br&gt;• January 1, 2021 – December 31, 2021</td>
<td>• January 1, 2023 – December 31, 2023</td>
</tr>
<tr>
<td>Efficiency and Cost Reduction</td>
<td>• MSPB&lt;br&gt;• January 1, 2021 – December 31, 2021</td>
<td>• January 1, 2023 – December 31, 2023</td>
</tr>
</tbody>
</table>


** Per section V.H.1.b.(5) of the preamble of this proposed rule, we are proposing to suppress the MORT-30-PN measure for the FY 2023 program year.

* As discussed in section V.H.3.c. of the preamble of this proposed rule, we are proposing to remove the CMS PSI-90 measure beginning with the FY 2023 program year.
### Table V.H-9: Previously Adopted Baseline and Performance Periods for the FY 2026 Program Year

<table>
<thead>
<tr>
<th>Domain</th>
<th>Baseline Period</th>
<th>Performance Period</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Person and Community Engagement</strong></td>
<td>• HCAHPS</td>
<td>• January 1, 2022 – December 31, 2022</td>
</tr>
<tr>
<td><strong>Clinical Outcomes</strong></td>
<td>• Mortality (MORT-30-AMI, MORT-30-HF, MORT-30-COPD, MORT-30-CABG, MORT-30-PN (updated cohort)* • COMP-HIP-KNEE</td>
<td>• July 1, 2016 – June 30, 2019</td>
</tr>
<tr>
<td><strong>Safety</strong></td>
<td>• NHSN measures (CAUTI, CLABSI, Colon and Abdominal Hysterectomy SSI, CDI, MRSA Bacteremia)</td>
<td>• January 1, 2022 – December 31, 2022</td>
</tr>
<tr>
<td><strong>Efficiency and Cost Reduction</strong></td>
<td>• MSPB</td>
<td>• January 1, 2022 – December 31, 2022</td>
</tr>
</tbody>
</table>

* Per section V.H.1.b.(5) of the preamble of this proposed rule, we are proposing to suppress the MORT-30-PN measure for the FY 2023 program year.

* As discussed in section V.H.3.c. of the preamble of this proposed rule, we are proposing to remove the CMS PSI-90 measure beginning with the FY 2023 program year.
Table V.H-10: Previously Adopted Baseline and Performance Periods for the FY 2027 Program Year

<table>
<thead>
<tr>
<th>Domain</th>
<th>Baseline Period</th>
<th>Performance Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person and Community Engagement</td>
<td>• HCAHPS</td>
<td>• January 1, 2023 – December 31, 2023</td>
</tr>
<tr>
<td>Clinical Outcomes</td>
<td>• Mortality (MORT-30-AMI, MORT-30-HF, MORT-30-COPD, MORT-30-CABG, MORT-30-PN (updated cohort)**</td>
<td>• July 1, 2017 – June 30, 2020*</td>
</tr>
<tr>
<td></td>
<td>• COMP-HIP-KNEE</td>
<td>• April 1, 2017 – March 31, 2020*</td>
</tr>
<tr>
<td>Safety*</td>
<td>• NHSN measures (CAUTI, CLABSI, Colon and Abdominal Hysterectomy SSI, CDI, MRSA Bacteremia)</td>
<td>• January 1, 2023 – December 31, 2023</td>
</tr>
<tr>
<td>Efficiency and Cost Reduction</td>
<td>• MSPB</td>
<td>• January 1, 2023 – December 31, 2023</td>
</tr>
</tbody>
</table>


** Per section V.H.1.b.(5). of the preamble of this proposed rule, we are proposing to suppress the MORT-30-PN measure for the FY 2023 program year.

† As discussed in section V.H.3.c. of the preamble of this proposed rule, we are proposing to remove the CMS PSI-90 measure beginning with the FY 2023 program year.

5. Performance Standards for the Hospital VBP Program

a. Background

We refer readers to sections 1886(o)(3)(A) through 1886(o)(3)(D) of the Act for the performance standard requirements under the Hospital VBP Program. We refer readers to the Hospital Inpatient VBP Program final rule (76 FR 26511 through 26513) for further discussion of achievement and improvement standards under the Hospital VBP Program. We refer readers to the FY 2013, FY 2014, and FY 2015 IPPS/LTCH PPS final rules (77 FR 53599 through 53605; 78 FR 50694 through 50699; and 79 FR 50077 through 50081, respectively) for a more detailed discussion of the general scoring methodology used in the Hospital VBP Program. We refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58856 through 58857) for previously established performance standards for the FY 2023 program year. We note that the measure suppression proposals for the FY 2022 and FY 2023 program years, discussed more fully in section V.H.1. of the preamble of this proposed rule, will not affect the performance standards for the FY 2022 or FY 2023 program year. However, as discussed in section X.H.6. of the preamble of this proposed rule, we are proposing to not generate achievement or improvement points for any suppressed measures for FY 2022.

We refer readers to the FY 2021 IPPS/LTCH PPS final rule for further discussion on performance standards for which the measures are calculated with lower values representing better performance (85 FR 58855).
proposed to remove the CMS PSI 90 measure from the Hospital VBP Program beginning with the FY 2023 program year. For this reason, we are not providing the estimated performance standards for this measure in this proposed rule. We note that the performance standards for the MSPB measure are based on performance period data. Therefore, we are unable to provide numerical equivalents for the standards at this time. As discussed in section V.H.4.b. of the preamble of this proposed rule, we are proposing to update the FY 2024 program year baseline periods for the measures included in the Safety, Person and Community Engagement, and Efficiency and Cost Reduction domains. If finalized, according to our established methodology for calculating performance standards, we will use data from January 1, 2019 through December 31, 2019 to calculate performance standards for the FY 2024 program year for these measures.

In accordance with our methodology for calculating performance standards discussed more fully in the Hospital Inpatient VBP Program final rule (76 FR 26511 through 26513) and codified at 42 CFR 412.160, we are estimating additional performance standards for the FY 2024 program year. We note that the numerical values for the performance standards for the Safety and Person and Community Engagement domains for the FY 2024 program year in the following tables are estimates based on the most recently available data, and we intend to update the numerical values in the FY 2022 IPPS/LTCH PPS final rule.

The previously established and estimated performance standards for the measures in the FY 2024 program year are set out in the following tables.

### Table V.H-11: Previously Established and Estimated Performance Standards for the FY 2024 Program Year

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Achievement Benchmark Threshold</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safety Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAUTI*</td>
<td>0.650</td>
<td>0</td>
</tr>
<tr>
<td>CLABSI*</td>
<td>0.589</td>
<td>0</td>
</tr>
<tr>
<td>CDI*</td>
<td>0.520</td>
<td>0.01</td>
</tr>
<tr>
<td>MRSA Bacteremia*</td>
<td>0.726</td>
<td>0</td>
</tr>
<tr>
<td>Colon and Abdominal Hysterectomy SSI*</td>
<td>0.717</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0.738</td>
<td>0</td>
</tr>
<tr>
<td><strong>Clinical Outcomes Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MORT-30-AMI#</td>
<td>0.866548</td>
<td>0.885499</td>
</tr>
<tr>
<td>MORT-30-HF#</td>
<td>0.881939</td>
<td>0.906798</td>
</tr>
<tr>
<td>MORT-30-PN (updated cohort)#</td>
<td>0.840138</td>
<td>0.871741</td>
</tr>
<tr>
<td>MORT-30-COPD#</td>
<td>0.919769</td>
<td>0.936349</td>
</tr>
<tr>
<td>MORT-30-CABG#</td>
<td>0.968747</td>
<td>0.979620</td>
</tr>
<tr>
<td>COMP-HIP-KNEE**#</td>
<td>0.027428</td>
<td>0.019779</td>
</tr>
<tr>
<td><strong>Efficiency and Cost Reduction Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSPB**#</td>
<td>Median Medicare Spending per Beneficiary ratio across all hospitals during the performance period.</td>
<td>Mean of the lowest decile Medicare Spending per Beneficiary ratios across all hospitals during the performance period.</td>
</tr>
</tbody>
</table>

* Per our proposal in section V.H.4.b. of the preamble of this proposed rule, the performance standards for the Safety domain measures were calculated using CY 2019 data. Lower values represent better performance. Previously established performance standards.

The HCAHPS Base Score is calculated using the eight dimensions of the HCAHPS measure. For each of the eight dimensions, Achievement Points (0–10 points) and Improvement Points (0–9 points) are calculated, the larger of which is then summed across the eight dimensions to create the HCAHPS Base Score (0–80 points). Each of the eight dimensions is of equal weight; therefore, the HCAHPS Base Score ranges from 0 to 80 points. HCAHPS Consistency Points are then calculated, which range from 0 to 20 points. The Consistency Points take into consideration the scores of all eight Person and Community Engagement dimensions. The final element of the scoring formula is the summation of the HCAHPS Base Score and the HCAHPS Consistency Points, which results in the Person and Community Engagement Domain score that ranges from 0 to 100 points. As discussed in section V.H.4.b. of the
preamble of this proposed rule, we are proposing to update the FY 2024 program year baseline period for the measure included in the Person and Community Engagement domain. If finalized, according to our established methodology for calculating performance standards, we will use data from January 1, 2019 through December 31, 2019 to calculate performance standards for the FY 2024 program year for this measure.

<table>
<thead>
<tr>
<th>HCAHPS Survey Dimension</th>
<th>Floor (minimum)</th>
<th>Achievement Threshold (50th percentile)</th>
<th>Benchmark (mean of top decile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication with Nurses</td>
<td>53.50</td>
<td>79.42</td>
<td>87.71</td>
</tr>
<tr>
<td>Communication with Doctors</td>
<td>62.41</td>
<td>79.83</td>
<td>87.97</td>
</tr>
<tr>
<td>Responsiveness of Hospital Staff</td>
<td>40.40</td>
<td>65.52</td>
<td>81.22</td>
</tr>
<tr>
<td>Communication about Medicines</td>
<td>39.82</td>
<td>63.11</td>
<td>74.05</td>
</tr>
<tr>
<td>Hospital Cleanliness &amp; Quietness</td>
<td>45.94</td>
<td>65.63</td>
<td>79.64</td>
</tr>
<tr>
<td>Discharge Information</td>
<td>66.92</td>
<td>87.23</td>
<td>92.21</td>
</tr>
<tr>
<td>Care Transition</td>
<td>25.64</td>
<td>51.84</td>
<td>63.57</td>
</tr>
<tr>
<td>Overall Rating of Hospital</td>
<td>36.31</td>
<td>71.66</td>
<td>85.39</td>
</tr>
</tbody>
</table>

* Per our proposal in section V.H.4.b. of the preamble of this proposed rule, the performance standards displayed in this table for the Person and Community Engagement domain measures were calculated using CY 2019 data.
d. Previously Established Performance Standards for Certain Measures for the FY 2026 Program Year

We have adopted certain measures for the Safety domain, Clinical Outcomes domain, and the Efficiency and Cost Reduction domain for future program years in order to ensure that we can adopt baseline and performance periods of sufficient length for performance scoring purposes. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58858 through 588589), we established performance standards for the FY 2026 program year for the Clinical Outcomes domain measures (MORT–30–AMI, MORT–30–HF, MORT–30–PN (updated cohort), MORT–30–COPD, MORT–30–CABG, and COMP–HIP–KNEE) and the Efficiency and Cost Reduction domain measure (MSPB). We note that the performance standards for the MSPB measure are based on performance period data. Therefore, we are unable to provide numerical equivalents for the standards at this time.

The previously established performance standards for these measures are set out in the following table.

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Achievement Threshold</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Domain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MORT-30-AMI</td>
<td>0.869247</td>
<td>0.887868</td>
</tr>
<tr>
<td>MORT-30-HF</td>
<td>0.882308</td>
<td>0.907733</td>
</tr>
<tr>
<td>MORT-30-PN (updated cohort)</td>
<td>0.840281</td>
<td>0.872976</td>
</tr>
<tr>
<td>MORT-30-COPD</td>
<td>0.916491</td>
<td>0.934002</td>
</tr>
<tr>
<td>MORT-30-CABG</td>
<td>0.969499</td>
<td>0.980319</td>
</tr>
<tr>
<td>COMP-HIP-KNEE*</td>
<td>0.025396</td>
<td>0.018159</td>
</tr>
<tr>
<td>Clinical Outcomes Domain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSPB*</td>
<td>Median Medicare Spending per Beneficiary ratio across all hospitals during the performance period.</td>
<td>Mean of the lowest decile Medicare Spending per Beneficiary ratios across all hospitals during the performance period.</td>
</tr>
</tbody>
</table>

* Lower values represent better performance.
As discussed previously, we have adopted certain measures for the Clinical Outcomes domain (MORT–30–AMI, MORT–30–HF, MORT–30–PN (updated cohort), MORT–30–COPD, MORT–30–CABG, and COMP–HIP–KNEE) and the Efficiency and Cost Reduction domain (MSPB) for future program years in order to ensure that we can adopt baseline and performance periods of sufficient length for performance scoring purposes. In accordance with our methodology for calculating performance standards discussed more fully in the Hospital Inpatient VBP Program final rule (76 FR 26511 through 26513), which is codified at 42 CFR 412.160, we are establishing the following performance standards for the FY 2027 program year for the Clinical Outcomes domain and the Efficiency and Cost Reduction domain. We note that the performance standards for the MSPB measure are based on performance period data. Therefore, we are unable to provide numerical equivalents for the standards at this time. The newly established performance standards for these measures are set out in the following table.

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Achievement Threshold</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Domain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MORT–30-AMI</td>
<td>0.872624</td>
<td>0.889994</td>
</tr>
<tr>
<td>MORT–30-HF</td>
<td>0.883990</td>
<td>0.910344</td>
</tr>
<tr>
<td>MORT–30-PN (updated cohort)</td>
<td>0.841475</td>
<td>0.874425</td>
</tr>
<tr>
<td>MORT–30-COPD</td>
<td>0.915127</td>
<td>0.932236</td>
</tr>
<tr>
<td>MORT–30-CABG</td>
<td>0.970100</td>
<td>0.979775</td>
</tr>
<tr>
<td>COMP–HIP–KNEE*</td>
<td>0.025332</td>
<td>0.017946</td>
</tr>
<tr>
<td>Clinical Outcomes Domain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSPB*</td>
<td>Median Medicare Spending per Beneficiary ratio across all hospitals during the performance period.</td>
<td>Mean of the lowest decile Medicare Spending per Beneficiary ratios across all hospitals during the performance period.</td>
</tr>
</tbody>
</table>

* Lower values represent better performance.
Table V.H-15: Newly Established Performance Standards for the FY 2027 Program Year

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Achievement Threshold</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clinical Outcomes Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MORT-30-AMI</td>
<td>0.877824</td>
<td>0.893133</td>
</tr>
<tr>
<td>MORT-30-HF</td>
<td>0.887571</td>
<td>0.913388</td>
</tr>
<tr>
<td>MORT-30-PN (updated cohort)</td>
<td>0.844826</td>
<td>0.877204</td>
</tr>
<tr>
<td>MORT-30-COPD</td>
<td>0.917395</td>
<td>0.932640</td>
</tr>
<tr>
<td>MORT-30-CABG</td>
<td>0.971149</td>
<td>0.980752</td>
</tr>
<tr>
<td>COMP-HIP-KNEE*</td>
<td>0.023322</td>
<td>0.017018</td>
</tr>
<tr>
<td><strong>Efficiency and Cost Reduction Domain</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSPB*</td>
<td>Median Medicare Spending per Beneficiary ratio across all hospitals during the performance period.</td>
<td>Mean of the lowest decile Medicare Spending per Beneficiary ratios across all hospitals during the performance period.</td>
</tr>
</tbody>
</table>

* Lower values represent better performance.
** As discussed further in section V.H.7. of the preamble of this proposed rule, we did not include data from Q1 and Q2 of CY 2020 in the calculation of these performance standards.

6. Proposed Scoring Methodology and Data Requirements

a. Proposed Scoring Methodology for the FY 2022 Program Year Due to the PHE for COVID–19

As described in section V.H.1. of the preamble of this proposed rule, we are proposing to suppress seven measures in the Hospital VBP Program for FY 2022 and to use a special rule for FY 2022 scoring. As previously discussed, we are proposing that we would calculate measure rates for all measures in the FY 2022 program year. For measures that we propose to suppress, we would not use the measure rates to generate achievement and improvement points within the Hospitals VBP’s current scoring methodology. We further propose under this special rule that we would only calculate achievement and improvement points, as well as a domain score, for the Clinical Outcomes Domain and that, because no other domains receive scores for the FY 2022 Program year, we would not award TPSs to any hospital for FY 2022.

Because no hospital would receive a TPS for FY 2022, we further propose that we would reduce each hospital’s base-operating DRG payment amount by 2 percent, as required under section 1886(o)(7)(B) of the Act, and then assign to each hospital a value-based incentive payment amount that matches the 2 percent reduction to the base operating DRG payment amount. The net result of these payment adjustments would be neutral for hospitals. We have stated that value-based payment systems should rely on a mix of standards, processes, outcomes, and patient experience measures (76 FR 26491). As such, the Hospital VBP Program scoring methodology was developed to be used with several measures across multiple domains and aims to score hospitals on their overall achievement relative to national benchmarks. However, as discussed in the measure suppression proposals in section V.H.1., the data from several measures is significantly impacted by the COVID–19 PHE. Awarding negative or positive incentive payment adjustment percentages using TPSs calculated using the current scoring methodology would not provide a representative score of a hospital’s overall performance in providing quality of care during a pandemic.

In order to ensure that hospitals are aware of changes in their performance rates that we have observed, we are proposing to provide FY 2022 confidential feedback reports that contain the measure rates we have calculated for the FY 2022 program year, along with achievement and improvement scores for the measures in the Clinical Outcomes Domain and a Clinical Outcome Domain score. However, as previously discussed, we are proposing that the measure rates and Clinical Outcome Domain performance scores would not be used to calculate TPSs for the purpose of adjusting hospital payments under the FY 2022 Hospital VBP Program.

We invite public comment on these proposals.

b. Domain Weighting for the FY 2023 Program Year and Subsequent Years for Hospitals That Receive a Score on All Domains

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38266), we finalized our proposal to retain the equal weight of 25 percent for each of the four domains in the Hospital VBP Program for the FY 2020 program year and subsequent years for hospitals that receive a score in all domains. We are not proposing any changes to these domain weights in this proposed rule.

c. Domain Weighting for the FY 2023 Program Year and Subsequent Years for Hospitals Receiving Scores on Fewer Than Four Domains

In the FY 2015 IPPS/LTCH PPS final rule (79 FR 50084 through 50085) we adopted a policy that hospitals must receive domain scores on at least three of four quality domains in order to receive a TPS, for the FY 2017 program year and subsequent years. Hospitals with sufficient data on only three domains will have their TPSs proportionately reweighted (79 FR 50084 through 50085). We are not
proposing any changes to these domain weights in this proposed rule.

d. Minimum Numbers of Measures for Hospital VBP Program Domains

We refer readers to the 2018 IPPS/LTCH PPS final rule (82 FR 38266) for our previously finalized requirements for the minimum numbers of measures for hospitals to receive domain scores. We are not proposing any changes to these policies in this proposed rule.

e. Minimum Numbers of Cases for Hospital VBP Program Measures

(1) Background

Section 1886(o)(1)(C)(ii)(IV) of the Act requires the Secretary to exclude for the fiscal year hospitals that do not report a minimum number (as determined by the Secretary) of cases for the measures that apply to the hospital for the performance period for the fiscal year. For additional discussion of the previously finalized minimum numbers of cases for measures under the Hospital VBP Program, we refer readers to the Hospital Inpatient VBP Program final rule (76 FR 26527 through 26531); the CY 2012 OPPS/ASC final rule (76 FR 74532 through 74534); the FY 2013 IPPS/LTCH PPS final rule (77 FR 53608 through 53610); the FY 2015 IPPS/LTCH PPS final rule (79 FR 50085 through 50086); the FY 2016 IPPS/LTCH PPS final rule (80 FR 49570); the FY 2017 IPPS/LTCH PPS final rule (81 FR 57011); the FY 2018 IPPS/LTCH PPS final rule (82 FR 38266 through 38267); the FY 2019 IPPS/LTCH PPS final rule (83 FR 41465 through 41466); the FY 2020 IPPS/LTCH PPS final rule (84 FR 42399 through 42400); and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58859 through 58860). We are not proposing any changes to these policies in this proposed rule.

(2) Summary of Previously Adopted Minimum Numbers of Cases

The previously adopted minimum numbers of cases for these measures are set forth in the following table.

<table>
<thead>
<tr>
<th>Measure Short Name</th>
<th>Minimum Number of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Person and Community Engagement Domain</strong></td>
<td></td>
</tr>
<tr>
<td>HCAHPS</td>
<td>Hospitals must report a minimum number of 100 completed HCAHPS surveys.</td>
</tr>
<tr>
<td><strong>Clinical Outcomes Domain</strong></td>
<td></td>
</tr>
<tr>
<td>MORT-30-AMI</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
<tr>
<td>MORT-30-HF</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
<tr>
<td>MORT-30-PN (updated cohort)</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
<tr>
<td>MORT-30-COPD</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
<tr>
<td>MORT-30-CABG</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
<tr>
<td>COMP-HIP-KNEE</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
<tr>
<td><strong>Safety Domain</strong></td>
<td></td>
</tr>
<tr>
<td>CAUTI</td>
<td>Hospitals have a minimum of 1,000 predicted infections as calculated by the CDC.</td>
</tr>
<tr>
<td>CLABSI</td>
<td>Hospitals have a minimum of 1,000 predicted infections as calculated by the CDC.</td>
</tr>
<tr>
<td>Colon and Abdominal Hysterectomy SSI</td>
<td>Hospitals have a minimum of 1,000 predicted infections as calculated by the CDC.</td>
</tr>
<tr>
<td>MRSA Bacteremia</td>
<td>Hospitals have a minimum of 1,000 predicted infections as calculated by the CDC.</td>
</tr>
<tr>
<td>CDI</td>
<td>Hospitals have a minimum of 1,000 predicted infections as calculated by the CDC.</td>
</tr>
<tr>
<td><strong>Efficiency and Cost Reduction Domain</strong></td>
<td></td>
</tr>
<tr>
<td>MSPB</td>
<td>Hospitals must report a minimum number of 25 cases.</td>
</tr>
</tbody>
</table>

f. Summary of Previously Adopted Administrative Policies for NHSN Healthcare-Associated Infection (HAI) Measure Data

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42400 through 42402), we finalized our proposal to use the same data to calculate the CDC NHSN HAI measures for the Hospital VBP Program that the HAC Reduction Program uses for purposes of calculating the measures under that program, beginning on January 1, 2020 for CY 2020 data collection, which would apply to the Hospital VBP Program starting with data for the FY 2022 program year performance period. In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42402), we also finalized our proposal for the Hospital VBP Program to use the same processes adopted by the HAC Reduction Program for hospitals to review and correct data for the CDC NHSN HAI measures and to rely on HAC Reduction Program validation to ensure the accuracy of CDC NHSN HAI measure data used in the Hospital VBP Program. We are not proposing any changes to these policies in this proposed rule.

7. Extraordinary Circumstance Exception (ECE) Policy for the Hospital VBP Program

a. Background

(1) Previously Established Extraordinary Circumstance Exception (ECE) Policy Under the Hospital VBP Program

We refer readers to the FY 2014 IPPS/LTCH PPS final rule (78 FR 50704 through 50707) for discussion of our Extraordinary Circumstance Exception (ECE) policy. In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50704 through 50707), we adopted an ECE policy for the Hospital VBP Program, which recognized that there may be periods of time during which a hospital is affected by an extraordinary circumstance beyond its control. When adopting the policy, we stated that upon a hospital’s request, we will consider providing an exception from the Hospital VBP Program requirements to hospitals affected by natural disasters or other extraordinary circumstances (78 FR 50704 through 50706). Specifically, we stated that we interpreted the minimum number of cases and measures requirement in sections 1886(o)(1)(C)(ii)(III) and (IV) of the Act to not include any measures or cases for which a hospital has submitted data during a performance period for which the hospital has been granted a Hospital VBP Program ECE. We expressed belief that this approach would help alleviate the reporting burden for a hospital that is adversely impacted by a natural disaster or other extraordinary circumstance beyond its control, while enabling the hospital to continue to participate in the Hospital VBP Program.

On May 8, 2020, we published an Interim Final Rule with public comment.
(IFC) titled “Medicare and Medicaid Programs, Basic Health Program, and Exchanges; Additional Policy and Regulatory Revisions in Response to the COVID–19 Public Health Emergency and Delay of Certain Reporting Requirements for the Skilled Nursing Facility Quality Reporting Program,” in response to the PHE for COVID–19 (hereafter referred to as the “May 2020 IFC”) (85 FR 27597 through 27598). We stated that if we grant an ECE to hospitals located in an entire region or locale under this revised policy and, as a result of granting that ECE, one or more hospitals located in that region or locale does not report the minimum number of cases or measures required to enable us to calculate a TPS for that hospital for the applicable program year, the hospital will be excluded from the Hospital VBP Program for the applicable program year. We also stated that a hospital that does not report the minimum number of cases or measures for a program year will not receive a two percent reduction to its base operating diagnosis-related group (DRG) payment amount for each discharge in the applicable program year and will also not be eligible to receive any value-based incentive payments for the applicable program year. We refer readers to sections V.H.6.d. and V.H.6.e. of the preamble of this proposed rule for the minimum number of cases or measures that we currently require hospitals to report in order to receive a TPS for a program year under the Hospital VBP Program.

(2) Extraordinary Circumstance Exception (ECE) Granted in Response to the PHE for COVID–19

On March 22, 2020, in response to COVID–19, we announced relief for clinicians, providers, hospitals, and facilities participating in Medicare quality reporting and VBP programs. We specifically announced that we were granting ECEs for certain data reporting requirements and submission deadlines for the first and second quarters of CY 2020. On March 27, 2020, we published a supplemental guidance memorandum that described the scope and duration of the ECEs we were granting under each Medicare quality reporting and VBP program. For the Hospital VBP Program, we stated that qualifying claims will be excluded from the measure calculations for January 1, 2020–March 31, 2020 (Q1 2020) and April 1, 2020–June 30, 2020 (Q2 2020) from the claims-based complication, mortality, and CMS PSI 90 measures. The ECEs also relieved providers and facilities of their obligation to report HCAHPS survey data and CDC NHSN HAI data for the fourth quarter calendar year (CY) 2019, first quarter CY 2020, and second quarter CY 2020.

(3) Updated Application of the ECE Granted in Response to the PHE for COVID–19

On September 2, 2020, we published a separate IFC, titled “Medicare and Medicaid Programs, Clinical Laboratory Improvement Amendments (CLIA), and Patient Protection and Affordable Care Act; Additional Policy and Regulatory Revisions in Response to the COVID–19 Public Health Emergency” (hereafter referred to as the “September 2020 IFC”) (85 FR 54820). The September 2020 IFC updated the ECE we granted in response to the PHE for COVID–19, for the Hospital VBP Program and several other quality reporting programs (85 FR 54827 through 54838).

In the September 2020 IFC, we updated the ECE that we granted for the Hospital VBP Program (85 FR 54833 through 54835) and stated that we will not use any first or second quarter CY 2020 measure data that was voluntarily submitted for scoring purposes under the Hospital VBP Program. We expressed concern with the national comparability of the Hospital VBP Program data due to the geographic differences of COVID–19 incidence rates and hospitalizations along with different impacts resulting from different State and local law and policy changes implemented in response to COVID–19.

In the September 2020 IFC, we welcomed public comments on our policy to not use any first or second quarter CY 2020 measure data that was voluntarily submitted for scoring purposes under the Hospital VBP Program. We will respond to those public comments in the FY 2022 IPPS/LTCPPS final rule.


We are proposing to replace the term “QualityNet System Administrator” with “QualityNet security official” in §412.167(b)(5) of our regulations. This update will align the terminology used for this program with the terminology we are proposing in section IX.A.8.c.(2). of this proposed rule to use for the Hospital IQR Program. This official is one of the hospital’s contact people for purposes of the appeal process under §412.167(b).

We welcome public comment on this proposal to replace the term “QualityNet System Administrator” with “QualityNet security official” in our regulation text.

9. Proposal To Update References to QualityNet and Hospital Compare for the Hospital VBP Program

There are currently several codified requirements for the Hospital VBP Program in our regulations. However, we are proposing to update regulation text to reflect changes made to CMS resources. Specifically, we are proposing to revise regulations in two places:

- At 42 CFR 412.163 in paragraph (d) and at 42 CFR 412.164 at paragraph (b) to update the text to indicate that the Hospital Compare website is now available on the Care Compare site at: https://www.medicare.gov/care-compare.
- At 42 CFR 412.165 in paragraphs (c)(2) and (c)(4) to update the URL for our QualityNet website from QualityNet.org to QualityNet.cms.gov. We note that we launched the redesigned QualityNet website in November 2020.

We welcome public comment on this proposal to update references to CMS resources in our regulation text.

10. Overall Hospital Quality Star Ratings

In the CY 2021 OPPS/ASC final rule with comment period and interim final rule with comment period (85 FR 86193 through 86236), we finalized a methodology to calculate the Overall...
Hospital Quality Star Ratings (Overall Star Ratings). The Overall Star Ratings utilize data collected on hospital inpatient and outpatient measures that are publicly reported on a CMS website, including data from the Hospital VBP Program. 202F; We refer readers to section XVI. of the CY 2021 OPPS/ASC final rule for details (85 FR 86193 through 86236).

11. References to Additional Requests for Information

We refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41440 through 41472) for more information about how the Hospital VBP Program supports CMS’ goal of bringing quality measurement, transparency, and improvement together with value-based purchasing to the hospital inpatient care setting through the Meaningful Measures Framework. We refer readers to section IX.A of this proposed rule, where we request information on potential actions and priority areas that would enable the continued transformation of our quality measurement enterprise toward greater digital capture of data and use of the FHIR standard. We also refer readers to section IX.B of this proposed rule, where we request information on our Equity Plan for Improving Quality in Medicare, which outlines our commitment to closing the health equity gap through improved data collection to better measure and analyze disparities across programs and policies. The request for information asks for public comment regarding the potential stratification of quality measure results by race and ethnicity and the potential creation of a hospital equity score in CMS quality reporting and value-based purchasing programs, including the HAC Reduction Program.

We also refer readers to section IX.A. of this proposed rule where we request information on potential actions and priority areas that would enable the continued transformation of our quality measurement enterprise toward greater digital capture of data and use of the FHIR standard (as described in that section). This request for information supports our goal of moving fully to digital quality measurement in CMS quality reporting and value-based purchasing programs, including the HAC Reduction Program, by 2025.

3. Measures for FY 2022 and Subsequent Years

We refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41472 through 41474) for more information about how the HAC Reduction Program supports our goal of bringing quality measurement, transparency, and improvement together with value-based purchasing to the hospital inpatient care setting through the Meaningful Measures Framework.

a. Current Measures

The HAC Reduction Program has adopted six measures to date. In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50717), we finalized the use of five CDC NHSN HAI measures: (1) CAUTI; (2) CDE; (3) CLABSI; (4) Colon and Abdominal Hysterectomy SSI; and (5) MRSA bacteremia. In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57017), we finalized the use of the CMS PSI 90 measure. These previously finalized measures, with their full measure names, are shown in this table.
In previous rules, we have identified those that may result in HACs as significant and enduring effects on health care systems around the world, particularly in hospitals for performance on measures than others. It is not our intention to penalize hospitals or other providers that result in skewed payment incentives and inequitable payments, particularly for hospitals or other providers that have treated more COVID–19 patients than others.

Therefore, we are proposing to adopt a policy for the duration of the PHE for COVID–19 that would enable us to suppress a number of measures from the FY 2022 and FY 2023 Total HAC Score calculations for the HAC Reduction Program if we determine that circumstances caused by the PHE for COVID–19 have affected these measures and the resulting Total HAC Scores significantly. Under this proposed policy, if we determine that the suppression of a HAC Reduction Program measure is warranted for a

### Technical specifications for the CMS PSI 90 measure can be found on the QualityNet website at: https://qualitynet.cms.gov/inpatient/measures/psi/resources. Technical specifications for the CDC NHSN HAI measures can be found at CDC’s NHSN website at: http://www.cdc.gov/nhsn/acute-care-hospital/index.html. Both websites provide measure updates and other information necessary to guide hospitals participating in the collection of HAC Reduction Program data.

### In this proposed rule, we are not proposing to add or remove any measures.

#### Measure Removal Factors Policy

We refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42404 through 42406) for information about our measure removal and retention factors for the HAC Reduction Program. In this proposed rule, we are not proposing any measure removal and retention factor policy changes.

#### Proposed Flexibility for Changes That Affect Quality Measures During a Performance or Measurement Period in the HAC Reduction Program

In previous rules, we have identified the need for flexibility in our quality programs to account for the impact of changing conditions that are beyond participating facilities’ or practitioners’ control. We identified this need because we would like to ensure that participants in our programs are not affected negatively when their quality performance suffers not due to the care provided, but due to external factors.

A significant example of the type of external factor that may affect quality measurement is the COVID–19 public health emergency (PHE), which has had, and continues to have, significant and ongoing effects on the provision of medical care in the country and around the world. The COVID–19 pandemic and associated PHE impedes effective quality measurement in many ways. Changes to clinical practices to accommodate safety protocols for medical personnel and patients, as well as unpredicted changes in the number of stays and facility-level case mixes, have affected the data used in quality measurement and the resulting quality scores. New clinical guidelines, diagnosis or procedure codes, and medications take time to be incorporated into quality measures, and once incorporated, those changes affect measure calculations. Additionally, COVID–19 prevalence is not identical across the country, meaning that the medical provider community has been affected differently at different times throughout the calendar year. Under those circumstances, we remain significantly concerned that quality measurement is distorted, which would result in skewed payment incentives and inequitable payments, particularly for hospitals or other providers that have treated more COVID–19 patients than others.

It is not our intention to penalize hospitals for performance on measures that are affected significantly by global events like the COVID–19 PHE. As previously discussed, the COVID–19 PHE had, and continues to have, significant and enduring effects on health care systems around the world, and affects care decisions, including those that may result in HACs as measured by the HAC Reduction Program. As a result of the PHE, hospitals could provide care to their patients that meets the underlying clinical standard but results in worse measured performance, and by extension, lower payment adjustments in the HAC Reduction Program. We are also concerned that regional and temporal differences in COVID–19 prevalence during the FY 2022 and FY 2023 performance periods, which include data collected during the PHE, may directly affect hospitals’ HAC measure performance for the FY 2022 and FY 2023 program years. Although these regional and temporal differences in COVID–19 prevalence rates do not reflect differences in the quality of care furnished by hospitals, they directly affect the value-based payment adjustments that these hospitals are eligible to receive and could result in an unfair and inequitable distribution of those assessment of penalties for excess hospital acquired conditions. These inequities could be especially pronounced for hospitals that have treated a large number of COVID–19 patients.

Therefore, we are proposing to adopt a policy for the duration of the PHE for COVID–19 that would enable us to suppress a number of measures from the FY 2022 and FY 2023 Total HAC Score calculations for the HAC Reduction Program if we determine that circumstances caused by the PHE for COVID–19 have affected these measures and the resulting Total HAC Scores significantly. Under this proposed policy, if we determine that the suppression of a HAC Reduction Program measure is warranted for a

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS PSI 90</td>
<td>CMS Patient Safety and Adverse Events Composite (CMS PSI 90)</td>
<td>0531</td>
</tr>
<tr>
<td>CAUTI</td>
<td>CDC NHSN Catheter-associated Urinary Tract Infection (CAUTI) Outcome Measure</td>
<td>0138</td>
</tr>
<tr>
<td>CDI</td>
<td>CDC NHSN Facility-wide Inpatient Hospital-onset Clostridium difficile Infection (CDI) Outcome Measure</td>
<td>1717</td>
</tr>
<tr>
<td>CLABS1</td>
<td>CDC NHSN Central Line-Associated Bloodstream Infection (CLABS1) Outcome Measure</td>
<td>0139</td>
</tr>
<tr>
<td>Colon and Abdominal Hysterectomy SSI</td>
<td>American College of Surgeons – Centers for Disease Control and Prevention (ACS-CDC) Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure</td>
<td>0753</td>
</tr>
<tr>
<td>MRSA Bacteremia</td>
<td>CDC NHSN Facility-wide Inpatient Hospital-onset Methicillin-resistant Staphylococcus aureus (MRSA) Bacteremia Outcome Measure</td>
<td>1716</td>
</tr>
</tbody>
</table>
program year, we would propose to calculate measure rates for that program year but then suppress the use of those rates to generate Total HAC Scores. We would instead assign each hospital a 0% weight for any suppressed measures in the Total HAC Score calculation. We would also provide confidential feedback reports to hospitals on their FY 2022 and FY 2023 performance to ensure that they are made aware of the changes in performance rates that we have observed. We would also publicly report the FY 2022 and FY 2023 data with appropriate caveats noting the limitations of the data due to the PHE for COVID–19.

In developing this proposed policy, we considered what circumstances caused by the PHE for COVID–19 would affect a quality measure significantly enough to warrant its suppression in a value-based purchasing program. We believe that significant deviation in measured performance that can be reasonably attributed to a PHE is a significant indicator of changes in clinical conditions that affect quality measurement. Similarly, we believe that a measure may be focused on a clinical topic or subject that is proximal to the disease, pathogen, or other health impacts of the PHE. As has been the case during the COVID–19 PHE, we believe that rapid or unprecedented changes in clinical guidelines and care delivery, potentially including appropriate treatments, drugs, or other protocols may affect quality measurement significantly and should not be attributed to the participating facility positively or negatively. We also note that scientific understanding of a particular disease or pathogen may evolve quickly during an emergency, especially in cases of new disease or conditions. Finally, we believe that, as evidenced during the COVID–19 PHE, national or regional shortages or changes in health care personnel, medical supplies, equipment, diagnostic tools, and patient case volumes or facility-level case mix may result in significant distortions to quality measurement.

Based on these considerations, we developed a number of Measure Suppression Factors that we believe should guide our determination of whether to propose to suppress HAC Reduction Program measures for one or more program years that overlap with the PHE for COVID–19. We are proposing to adopt these Measure Suppression Factors for use in the HAC Reduction Program, and for consistency, the following other value-based purchasing programs: Hospital Value-Based Purchasing, Hospital Readmissions Reduction Program, Skilled Nursing Facility Value-Based Purchasing Program, and End-Stage Renal Disease Quality Incentive Program. We believe that these Measure Suppression Factors will help us evaluate the HAC Reduction Program’s measures and that their adoption in the other value-based purchasing programs, as previously noted, will help ensure consistency in our measure evaluations across programs. The proposed Measure Suppression Factors are:

1. Significant deviation in national performance on the measure during the PHE for COVID–19, which could be significantly better or significantly worse compared to historical performance during the immediately preceding program years.
2. Clinical proximity of the measure’s focus to the relevant disease, pathogen, or health impacts of the PHE for COVID–19.
3. Rapid or unprecedented changes in clinical guidelines and care delivery or practice, treatments, drugs, or equipment or diagnostic tools or materials; or
4. Significant national shortages or rapid or unprecedented changes in: (i) Healthcare personnel; (ii) medical supplies, equipment, or diagnostic tools or materials; or (iii) patient case volumes or facility-level case mix.

We also considered alternatives to this proposed policy that could fulfill our objective to not hold facilities accountable for distorted measure results under the FY 2022 and FY 2023 Programs. As previously noted, the country continues to grapple with the effects of the COVID–19 PHE, and in March 2020, CMS issued a nationwide, blanket ECE for all hospitals and other facilities participating in our quality reporting and value-based purchasing programs in response to the COVID–19 PHE. This blanket ECE waived all data reporting requirements for Q1 and Q2 2020 data, including waiving the use of claims data and data collected through the CDC’s web-based surveillance system for this data period. Quality data collection resumed on July 1, 2020. This blanket ECE is likely to affect our quality programs significantly, especially in future years as CY 2020 measurement forms the basis for performance assessments in our value-based purchasing programs. We considered extending the blanket ECE that we issued for Q1 and Q2 2020 for Q3 and Q4 2020. This alternative would protect providers and suppliers from having their quality data used for quality scoring purposes while those data are likely to have been affected significantly by the PHE for COVID–19. However, this option would leave no comprehensive data available for us to provide confidential performance feedback to providers nor for monitoring and to inform decision-making for potential future programmatic changes, particularly as the PHE is extended.

As an alternative to the proposed measure quality suppression policy, we also considered not making any further changes to the Program or measures and using Q3 and Q4 2020 quality measurement data that we previously specified for the HAC Reduction Program. However, this alternative would mean assessing hospitals and other providers and suppliers using quality measure data that could be affected significantly by the COVID–19 PHE. Additionally, given the geographic disparities in the COVID–19 PHE’s effects, implementation of the FY 2022 and FY 2023 HAC Reduction Programs as previously finalized would place hospitals in regions that were more heavily affected by the pandemic in Q3 and Q4 of 2020 at a disadvantage compared to hospitals in regions that were more heavily affected during the first two quarters of CY 2020, for which we are not using HAC Reduction Program data to calculate the Program’s scores.

We view this measure suppression proposal as necessary to ensure that the FY 2022 and FY 2023 HAC Reduction Programs do not reward or penalize facilities based on factors that the Program’s measures were not designed to accommodate. We intend for this proposed policy to provide short-term relief to hospitals when we have determined that one or more of the Measure Suppression Factors warrants the suppression of one or more of the HAC Reduction Program’s measures.

We invite public comments on this proposal for the adoption of a measure suppression policy for the FY 2022 and FY 2023 HAC Reduction Program years, as previously described, and also on the proposed Measure Suppression Factors that we have developed for purposes of this proposed policy.

We are also inviting comment on whether we should consider adopting a measure suppression policy that would apply in a future national PHE, and if so, whether under such a policy, we should have the flexibility to suppress certain measures without specifically publishing to do so in rulemaking. We also request comment on whether we should in future years consider adopting
any form of regional adjustment for the proposed measure suppression policy that could take into account any disparate effects of circumstances affecting hospitals around the country that would prompt us to suppress a measure. For example, the COVID–19 PHE affected different regions of the country at different rates depending on factors like time of year, geographic density, State and local policies, and health care system capacity. In future years and for future PHEs, should they arise, we also request commenters’ feedback on whether we should, rather than suppress a measure completely, consider a suppression policy with more granular effects based on our assessment of the geographic effects of the circumstances, and if so, how region-based measure suppression could be accounted for within the program’s scoring methodology.

d. Proposal To Suppress Third and Fourth Quarter CY 2020 Data From the FY 2022 and FY 2023 HAC Reduction Program

In section IX.1.3.c., we proposed to adopt a measure suppression policy. We are proposing to suppress the third and fourth quarters of CY 2020 (that is, July 1, 2020 through September 30, 2020 (Q3 2020) and October 1, 2020 through December 31, 2020 (Q4 2020)) CDC NHSN HAIs and CMS PSI 90 data from our performance calculations for FY 2022 and FY 2023 under the proposed Measure Suppression Factor (1) “significant deviation in national performance on the measure, which could be significantly better or significantly worse compared to historical performance during the immediately preceding program years;” and the Measure Suppression Factor (4) subfactor, “significant national or regional shortages or rapid or unprecedented changes in patient case volumes or case mix.” Although Q3 and Q4 2020 data would be suppressed from the Total HAC Score calculation, hospitals would still be required to submit such data and such data would be used for public reporting purposes. As described in more detail in section IX.B.7.a., through memoranda released in March 2020 and an IFC published in September 2020 (85 FR 54827 through 54828), in response to the COVID–19 PHE, we excluded, by application of our ECE policy, all data submitted regarding care provided during the first and second quarters of CY 2020 from our performance calculations for FY 2022 and FY 2023. We excluded such data because concerns about the national comparability of such data due to the geographic differences of COVID–19 incidence rates and hospitalizations, along with different impacts resulting from different State and local laws and policy changes implemented in response to COVID–19.

We continue to be concerned about measure performance and the national comparability of such performance during Q3 and Q4 2020 and are therefore proposing to suppress Q3 2020 and Q4 2020 HAI and CMS PSI 90 measure data from the calculation of the Total HAC Score. An analysis performed by the CDC found that CLABSI, CAUTI, and MRSA had statistically significant measure rate increases during Q3 and Q4 CY 2020 as compared to Q3 and Q4 CY 2019. We believe that the measure data may have been distorted due to circumstances unique to the effects of the COVID–19 PHE, such as staffing shortages and turnover, patients that are more susceptible to infections due to increased hospitalization stays, and longer indwelling catheters and central lines. As for the SSI and CDI measures, neither measure had a statistically significant increase or decrease during Q3 and Q4 2020 as compared to Q3 and Q4 2019. For the SSI measure, the low reporting volume is due to the decrease in surgeries during the COVID–19 PHE, while the CDI measure has historically been declining. Though the COVID–19 PHE may not have had the same clinical impact on the SSI and CDI measures, we believe that due to the low reporting volume of these two measures and for maintaining consistency of the full CDC NHSN HAI measure set, all five CDC NHSN HAI measures should be suppressed instead of just three of them. Similarly, our analysis of CMS PSI 90 measure suggested that comparability of performance on the measure has also been impacted by the PHE. Our analysis found a decrease in volume across all component Patient Safety Indicator (PSI) measures, especially those related to elective surgeries (postoperative acute kidney injury rate, postoperative respiratory failure rate, and postoperative sepsis rate). Our analysis also found increased risk-adjusted rates for patients with COVID–19 compared to patients without COVID–19 as well as increased risk-adjusted rates for the three component PSI measures that include non-surgical patients (pressure ulcer rate, iatrogenic pneumothorax rate, and in-hospital fall with hip fracture rate) while the surgical-specific component PSI measures (perioperative hemorrhage and hematoma rate, postoperative deep vein thrombosis rate, postoperative sepsis rate, postoperative wound dehiscence rate, and unrecognized abdominopelvic accidental puncture/laceration rate) did not see substantial change in risk-adjusted rates. As previously noted, under this policy, participating hospitals would continue to report all HAC Reduction Program measures’ data to CMS, and in the case of the CDC NHSN HAI measures, to CDC, so that we can monitor the effect of the circumstances on quality measurement and determine appropriate policies in the future. We would also use Q3 and Q4 2020 data in feedback reports to hospitals as part of program activities, including to inform their quality improvement activities, and to ensure that they are made aware of and have an opportunity to preview the changes in performance rates we observe and display via public reporting to ensure transparency.

The proposed suppression of Q3 and Q4 2020 HAI and CMS PSI 90 measure data would result in the following applicable periods for calculating Total HAC Scores for FY 2022 and FY 2023 HAC Reduction Programs. For the FY 2022 HAC Reduction Program, the applicable period used for scoring for the CMS PSI 90 measure would remain the same as resulted from the previously granted ECE, that is, the 18-month period from July 1, 2018 through December 31, 2019. For the CDC NHSN HAI measures, this further exclusion would result in an applicable period for FY 2022 of the 12-month period from January 1, 2019 through December 31, 2019. For the FY 2023 HAC Reduction Program, the exclusion would result in a shortened applicable period, for the CMS PSI 90 measure, to the 12-month period from July 1, 2019 through December 31, 2019 and January 1, 2021 through June 30, 2021, and for the CDC NHSN HAI measures to the 12-month period from January 1, 2021 through December 31, 2021.

We believe using data from the proposed periods will provide sufficiently reliable data for evaluating hospital performance that we can use for FY 2022 and FY 2023 scoring. In the FY 2017 IPPS/LTCH PPS final rule, we clarified that a hospital has complete data for the CMS PSI 90 measure if it has 12 months or more of data and three or more eligible discharges for at least one component PSI measure within the CMS PSI 90 composite measure (81 FR 50712). Further, as we have previously noted, NQF has determined that the CMS PSI 90 measure is reliable using 12 months of data (81 FR 50720). We have also determined that a 12-month performance period provides us with
sufficient data on which to score hospital performance on NHSN measures in the Safety domain of the Hospital VBP Program (79 FR 50071). We also note that 12-month performance periods are consistent with the reporting periods used for these measures under the Hospital VBP Program (79 FR 50071) and when the measures were previously in the Hospital IQR Program (78 FR 50689).

In determining how to address the impact of the COVID–19 PHE on hospital performance and calculating Total HAC Scores for FY 2022 and FY 2023, we also considered as an alternative to suppressing all Q3 and Q4 2020 data, suppressing CDC NHSN HAI measure data while using the CMS PSI 90 measure data. This alternative would have focused on suppressing those measures most impacted by the COVID–19 PHE. However, as previously discussed, we still have concerns about the comparability of data for the CMS PSI 90 measure from Q3 and Q4 2020 due to differences in the risk-adjusted rate of component PSI measures for COVID-positive patients. In addition, an analysis revealed that smaller and rural hospitals would be more negatively impacted by this approach.

We also considered making no modifications to the program and suppressing no measure data from Q3 and Q4 2020 due to differences in the risk-adjusted rate of component PSI measures for COVID-positive patients. In addition, an analysis revealed that smaller and rural hospitals would be more negatively impacted by this approach. Additionally, given the geographic disparities in the COVID–19 PHE’s effects, this policy could place hospitals in regions that were hit harder by the pandemic in Q3 and Q4 of 2020 at a disadvantage compared to hospitals in regions that were more heavily affected earlier in CY 2020. Ultimately, we believe that our proposal to suppress both CDC NHSN HAI and CMS PSI 90 measure data from Q3 and Q4 2020 more fairly addresses the impact of the COVID–19 PHE on participating hospitals.

We invite comments on our proposal to suppress third and fourth quarter CY 2020 CDC NHSN HAI and CMS PSI 90 measure data from the HAC Reduction Program.

4. HAC Reduction Program Scoring Methodology and Scoring Review and Corrections Period

In FY 2019 IPPS/LTCH PPS final rule (83 FR 41484 through 41489), we adopted the Equal Measure Weights approach to scoring and clarified the Scoring Calculations Review and Correction Period (83 FR 41484) for the HAC Reduction Program. Hospitals must register for a QualityNet website’s secure portal account in order to access their annual hospital-specific reports. We will continue using this scoring methodology and the Scoring Calculations Review and Correction Period process in FY 2021 and for subsequent years. In this proposed rule, we are not proposing any changes to the HAC Reduction Program scoring methodology or Scoring Calculations Review and Correction Period.

**Finalized Validation Period for the HAC Reduction Program in FY 2024**

<table>
<thead>
<tr>
<th>Discharge Quarters by Fiscal Year (FY)</th>
<th>Current CDC NHSN HAI Submission Deadline*</th>
<th>Current CDC NHSN HAI Validation Templates*</th>
<th>Estimated CDAC961 Record Request</th>
<th>Estimated Date Records Due to CDAC</th>
<th>Estimated Validation Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 2021</td>
<td>08/15/2021</td>
<td>08/01/2021</td>
<td>08/30/2021</td>
<td>09/29/2021</td>
<td>12/15/2021</td>
</tr>
<tr>
<td>Q3 2021</td>
<td>02/15/2022</td>
<td>02/01/2022</td>
<td>02/28/2022</td>
<td>03/30/2022</td>
<td>06/15/2022</td>
</tr>
<tr>
<td>Q4 2021</td>
<td>05/15/2022</td>
<td>05/01/2022</td>
<td>05/30/2022</td>
<td>06/29/2022</td>
<td>09/15/2022</td>
</tr>
</tbody>
</table>

We are not proposing any changes to the policies regarding measure validation in this proposed rule.

---

6. Overall Hospital Quality Star Ratings

In the FY 2021 OPPS/ASC final rule with comment period and interim final rule with comment period (85 FR 86193 through 86236), we finalized a methodology to calculate the Overall Hospital Quality Star Ratings (Overall Star Ratings). The Overall Star Ratings utilizes data collected on hospital inpatient and outpatient measures that...
are publicly reported on a CMS website, including data from the HAC Reduction Program. We refer readers to section XVI of the CY 2021 OPPS/ASC final rule for details.

7. Extraordinary Circumstances Exception (ECE) Policy for the HAC Reduction Program
a. Background

(1) Previously Established Extraordinary Circumstance Exception (ECE) Policy Under the HAC Reduction Program

We refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49579 through 49581) and the FY 2018 IPPS/LTCH PPS (82 FR 38276 through 38277) for discussion of our Extraordinary Circumstances Exception (ECE) policy. In the FY 2016 IPPS/LTCH PPS final rule (80 FR 49579 through 49581), we adopted an ECE policy for the HAC Reduction Program, which recognized that there may be periods of time during which a hospital is affected by an extraordinary circumstance beyond its control. When adopting the policy, we noted that we considered the feasibility and implications of excluding data for certain measures for a limited period of time from the calculations for a hospital’s measure results or Total HAC Score for the applicable performance period. By minimizing the data excluded from the program, the proposed policy enabled affected hospitals to continue to participate in the HAC Reduction Program for a given fiscal year if they otherwise continued to meet applicable measure minimum threshold requirements. We expressed the belief that this approach would help alleviate the burden for a hospital that might be adversely impacted by a natural disaster or other extraordinary circumstance beyond its control, while enabling the hospital to continue to participate in the HAC Reduction Program. In developing this policy, we considered a policy and process similar to that for the Hospital IQR Program, as finalized in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51651), modified by the FY 2014 IPPS/LTCH PPS final rule (78 FR 50836) (designation of a non-CEO hospital contact), and further modified in the FY 2015 IPPS/LTCH PPS final rule (79 FR 50277) (amended §412.40(c)(2)) to refer to “extension or exemption” instead of the former “extension or waiver”). We also considered how best to align an extraordinary circumstance exception policy for the HAC Reduction Program with existing extraordinary circumstance exception policies for other IPPS quality reporting and payment programs, such as the Hospital Value-Based Purchasing (VBP) Program, to the extent feasible.

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38276 through 38277), we modified the requirements for the HAC Reduction Program ECE policy to further align with the process used by other quality reporting and value-based purchasing programs for requesting an exception from program reporting due to an extraordinary circumstance not within a provider’s control.

(2) Extraordinary Circumstances Exception (ECE) Granted in Response to the COVID–19 Public Health Emergency

On March 22, 2020, in response to COVID–19, we announced relief for clinicians, providers, hospitals, and facilities participating in Medicare quality reporting and value-based purchasing programs. Specifically, we announced that we were granting ECEs for certain data reporting requirements and submission deadlines for the first and second quarters of CY 2020. On March 27, 2020, we published a supplemental guidance memorandum that described the scope and duration of the ECEs we were granting under each Medicare quality reporting and value-based purchasing program. In that memorandum, we stated that qualifying claims would be excluded from the measure calculations for the CMS PSI 90 for the first and second quarters of calendar year (CY) 2020. The ECEs also relieved providers and facilities of their obligation to report CDC NHSN HAI data for the fourth quarter calendar year (CY) 2019, first quarter CY 2020 and second quarter CY 2020.

(3) Updated Application of the ECE Granted in Response to the COVID–19 PHE

On September 2, 2020, we published the Interim Final Rule with comment period (IFC), “Medicare and Medicaid Programs, Clinical Laboratory Improvement Amendments (CLIA), and Patient Protection and Affordable Care Act: Additional Policy and Regulatory Revisions in Response to the COVID–19 Public Health Emergency” (85 FR 54820). The IFC updated the ECE we granted in response to the PHE for COVID–19, for the HAC Reduction Program and several other quality reporting programs (85 FR 54827 through 54838).

In the IFC, we updated the previously announced application of our ECE policy for the HAC Reduction Program (85 FR 54830 through 54832) to the COVID–19 PHE to exclude any CDC NHSN HAI data submitted regarding care provided during first and second quarter of CY 2020 from our calculation of performance for FY 2022 and FY 2023, even if optionally reported. We recognized that the chart-abstracted measures in the HAC Reduction Program are calculated based on data submitted to the CDC’s NHSN and that because the CDC uses the same data for epidemiological surveillance, hospitals may have reporting requirements which are not affected by our ECE (for example, State requirements). We expressed concern with the national comparability of the HAC Reduction Program data due to the geographic differences of COVID–19 incidence rates and hospitalizations along with different impacts resulting from different State and local law and policy changes implemented in response to COVID–19.

In the IFC, we welcomed public comments on our policy to exclude any data submitted regarding care provided during the first and second quarter of CY 2020 from our calculation of performance for the FY 2022 and FY 2023 program years. We will respond to those public comments in the FY 2022 IPPS/LTCH PPS final rule.

In the September 2, 2020 IFC, we also announced that if due to ECEs related to the COVID–19 PHE, we do not have enough data to reliably measure national performance, we may propose to not score hospitals based on such limited data or make the associated payment adjustments to hospitals under the IPPS for the affected program year. We stated that, if circumstances warranted, we could propose to suspend prospective application of program penalties or payment adjustments through the annual IPPS/LTCH PPS proposed rule. We also stated that, in the interest of time and transparency, we may provide regulatory advance notice of our intentions to suspend such penalties and adjustments through routine communication channels to facilities, vendors, and FQHCs. The communications could include memos, emails, and notices on the public.
QualityNet website (https://www.qualitynet.cms.gov/).  

In section IX.I.3.d., as previously mentioned, we propose to suppress third and fourth quarter CY 2020 data from FY 2022 and FY 2023 Total HAC Scores using the measure suppression policy proposed in IX.I.3.c.

b. General Clarifications to HAC Reduction Program ECE Policy

After the nationwide ECE granted in response to the COVID–19 PHE ended, we received several requests from hospitals for individual ECEs under the HAC Reduction Program, due to extraordinary circumstances resulting from the continuing impact of the pandemic. These individual ECE requests specifically requested clarity on whether CDC NHSN HAI measure data that hospitals submitted to the CDC NHSN because of State reporting requirements could be excluded from the HAC Reduction Program Total HAC Score calculations. In this proposed rule, we would like to clarify that an ECE granted under the HAC Reduction Program may allow an exception from quality data reporting requirements and/or may grant a request to exclude any data submitted (whether submitted for claims purposes or to the CDC NHSN) from the calculation of a hospital’s measure results or Total HAC Score for the applicable period, depending on the exact circumstances under which the request was made.

We have also received a few ECE requests from hospitals for an exception from the HAC Reduction Program payment reduction. The ECE policy for the HAC Reduction Program is intended to provide relief for a hospital that has been negatively impacted as a direct result of experiencing a significant disaster or other extraordinary circumstance beyond the hospital’s control by excluding data and/or granting an exception with respect to data reporting requirements for the period during which performance or ability to submit data was impacted. However, we also believe that the hospital should still be evaluated for the remainder of the applicable period during which performance and/or ability to timely submit data was not impacted (to the extent that enough data are available to ensure that the calculation is statistically sound). This policy is not intended to extend to payment reductions. Therefore, we would like to clarify that an approved ECE for the HAC Reduction Program does not exempt hospitals from payment reductions under the HAC Reduction Program.

c. Clarification of the Impact of ECE Excluded Data for the HAC Reduction Program

In this proposed rule, we would also like to clarify the impact on upcoming HAC Reduction Program calculations of data excluded from the HAC Reduction Program due to the nationwide ECE. In order to determine and evaluate what kind of impact the PHE for COVID–19 might have on the HAC Reduction Program, we conducted analyses to simulate the impact of an altered performance period on program eligibility and the resulting payment impacts to hospitals using data for the FY 2020 HAC Reduction Program performance period. This analysis was intended to evaluate what patterns we might observe in HAC Reduction Program eligibility and payment as a result of excluding 6 months of data due to the ECE granted in response to the PHE for COVID–19. Our analysis found that when 6 months of data are removed from HAC Reduction Program calculations, 12.2 percent of hospitals see a change in worst-performing quartile status, with 6.1 percent moving into the worst-performing quartile and 6.1 percent moving out. For context, in a typical year approximately 18 percent of hospitals experience a change in worst-performing quartile status from one year to the next. We are performing additional analyses as CY 2020 data becomes available, and we will provide updated analyses as necessary when it becomes available.

As we stated in the FY 2015 IPPS/LTCH PPS final rule (79 FR 50100 through 50101) and reiterated in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41475), we will use a subregulatory process to make nonsubstantive updates to measure specifications to facilitate the program’s operation when minor changes are required, but do not substantively impact the program’s previously finalized policies (84 FR 42385 through 42387). We believe that updates to measure inclusion criteria proposed by the measure developers in response to the COVID–19 PHE are nonsubstantive and do not substantively impact the HAC Reduction Program’s previously finalized policies. For more details, we refer readers to the Hospital Specific Report (HSR) User Guide located on QualityNet website at: https://qualitynet.cms.gov/inpatient/hac/reports.

8. Proposed Regulatory Updates (42 CFR 412.172)

We are proposing to update the references to CMS resources in regulation text. We note that we renamed our Hospital Compare website. It is now referred to as Care Compare and is available at: https://www.medicare.gov/care-compare. We are proposing to revise our regulations for the HAC Reduction Program at 42 CFR 412.172(f)(4) to reflect the new website name. We propose to amend § 412.172(f)(4), by adding the phrase “or successor website” so that the text reads “Hospital Compare website or successor website.”  

965 While the statute refers to Hospital Compare, the name has been changed to Care Compare. Now called Care Compare, the website continues to serve the purpose of displaying quality data submitted for the HAC Reduction Program.
care costs of teaching hospitals relative to nonteaching hospitals. The regulations regarding the calculation of this additional payment are located at 42 CFR 412.105. The hospital’s IME adjustment applied to the DRG payments is calculated based on the ratio of the hospital’s number of FTE residents training in either the inpatient or outpatient departments of the IPPS hospital to the number of inpatient hospital beds.

The calculation of both direct GME payments and the IME payment adjustment is affected by the number of FTE residents that a hospital is allowed to count. Generally, the greater the number of FTE residents a hospital counts, the greater the amount of Medicare direct GME and IME payments the hospital will receive. In an attempt to end the implicit incentive for hospitals to increase the number of FTE residents, Congress, through the Balanced Budget Act of 1997 (Pub. L. 105–33), established a limit on the number of allopathic and osteopathic residents that a hospital may include in its FTE resident count for direct GME and IME payment purposes. Under section 1886(h)(4)(F) of the Act, for cost reporting periods beginning on or after October 1, 1997, a hospital’s unweighted FTE count of residents for purposes of direct GME may not exceed the hospital’s unweighted FTE count for direct GME in its most recent cost reporting period ending on or before December 31, 1996. Under section 1886(d)(5)(B)(v) of the Act, a similar limit based on FTE count for IME during that cost reporting period is applied, effective for discharges occurring on or after October 1, 1997. Dental and podiatric residents are not included in this statutorily mandated cap.

The Affordable Care Act made a number of statutory changes relating to the determination of a hospital’s FTE resident limit for direct GME and IME payment purposes and the manner in which FTE resident limits are calculated and applied to hospitals under certain circumstances. Section 5503(a)(4) of the Affordable Care Act added a new section 1886(h)(8) to the Act to provide for the reduction in FTE resident caps for direct GME under Medicare for certain hospitals training fewer residents than their caps, and to authorize the redistribution of the estimated number of excess FTE resident slots to other qualified hospitals. In addition, section 5503(b) amended section 1886(d)(5)(B)(v) of the Act to require the application of the section 1886(h)(8) of the Act provisions in the same manner to the IME FTE resident caps. The policy implementing section 5503 of the Affordable Care Act was included in the November 24, 2010 CY 2011 OPPS/ASC final rule with comment period (75 FR 72147 through 72212) and the FY 2013 IPPS/LTCH PPS final rule (77 FR 53434 through 53448), and the FY 2015 IPPS/LTCH final rule (79 FR 50122–50140).

2. Provisions of the Consolidated Appropriations Act, 2021

The Consolidated Appropriations Act, 2021 (CAA), division CC, contained 3 provisions affecting Medicare direct GME and IME payments to teaching hospitals. Section 126 of the CAA makes available 1,000 new Medicare-funded GME positions (but not more than 200 new positions for a fiscal year), to be distributed beginning in fiscal year 2023, with priority given to hospitals in 4 statutorily-specified categories. Section 127 of the CAA makes statutory changes relating to the determination of both an urban and rural hospital’s FTE resident limit for direct GME and IME payment purposes with regard to residents training in an accredited rural training track and the 3-year rolling average set out at section 1886(h)(4)(G)(i) of the Act used to calculate payments for these hospitals. Section 131 of the CAA makes statutory changes to the determination of direct GME PRAs and direct GME and IME FTE resident limits of hospitals that hosted a small number of residents for the reduction in FTE resident caps. The policy implementing section 1886(h)(9) of the Act was included in the November 24, 2010 CY 2011 OPPS/ASC final rule with comment period (75 FR 72212 through 72238), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53434 through 53448), and the FY 2015 IPPS/LTCH final rule (79 FR 50122–50140).

a. Distribution of Additional Residency Positions Under the Provisions of Section 126 of Division CC of the Consolidated Appropriations Act, 2021 (CAA)

(1) Overview

Section 126(a) of the CAA amended section 1886(h) of the Act by adding a new section 1886(h)(9) requiring the distribution of additional residency positions to qualifying hospitals. Section 1886(h)(9)(A) requires that for FY 2023, and for each succeeding fiscal year until the aggregate number of full-time equivalent (FTE) residency positions distributed is equal to 1,000, the Secretary shall initiate separate rounds of applications from hospitals for these additional residency positions. The Secretary is required, subject to certain provisions in the law, to increase the otherwise applicable resident limit for each qualifying hospital that submits a timely application by the number of positions that may be approved by the Secretary for that hospital. The Secretary is required to notify hospitals of the number of positions distributed to them by January 31 of the fiscal year of the increase, and the increase is effective beginning July 1 of that fiscal year. Section 1886(h)(9)(A) also limits the aggregate number of such positions made available in a single fiscal year across all hospitals to no more than 200.

In determining the qualifying hospitals for whom an increase is provided, section 1886(h)(9)(B) of the Act requires the Secretary to take into account the demonstrated likelihood of the hospital filling the positions made available within the first five training years beginning after the date the increase would be effective, as determined by the Secretary.

Section 1886(h)(9)(B) also requires a minimum distribution for certain categories of hospitals. Specifically, the Secretary is required to distribute at least 10 percent of the aggregate number of total residency positions available to each of four categories of hospitals. Stated briefly, and discussed in greater detail later in this proposed rule, the categories are as follows: (1) Hospitals located in rural areas or that are treated as being located in a rural area (pursuant to sections 1886(d)(2)(D) and 1886(d)(6)(E) of the Act); (2) hospitals in states with new medical schools or additional locations and branches of existing medical schools; and (4) hospitals that serve areas designated as Health Professional Shortage Areas (HPSAs). Section 1886(h)(9)(F)(ii) of the Act defines a qualifying hospital as a hospital in one of these four categories. Section 1886(h)(9)(C) of the Act places certain limitations on the distribution of the residency positions. First, a hospital may not receive more than 25 additional FTE residency positions. Second, the otherwise applicable resident limit of a hospital may be made unless the
hospital agrees to increase the total number of FTE residency positions under the approved medical residency training program of the hospital by the number of positions made available to that hospital.

(2) Determinations Required for the Distribution of Residency Positions

(a) Determination That a Hospital has a Demonstrated Likelihood of Filling the Positions

Section 1886(h)(9)(B)(i) of the Act directs the Secretary to take into account the demonstrated likelihood of the hospital filling the positions made available within the first 5 training years beginning after the date the increase would be effective, as determined by the Secretary. Section 1886(h)(9)(A)(ii)(II) of the Act requires that the increase would be effective beginning July 1 of the fiscal year of the increase. For FY 2023, this means the additional positions would be effective July 1, 2023.

As discussed later in this section, we are proposing that the application deadline for the additional positions available for a fiscal year be January 31 of the prior fiscal year. Accordingly, for FY 2023, all references in section V.J.2.a of this proposed rule to the application deadline are references to the proposed application deadline of January 31, 2022. We are proposing that a hospital would show a demonstrated likelihood of filling the additional positions (sometimes equivalently referred to as slots) for which it applies by demonstrating that it does not have sufficient room under its current FTE resident cap(s) to accommodate a planned new program or expansion of an existing program.

In order to demonstrate that it does not have sufficient room under its current FTE resident cap(s), we are proposing that a hospital submit copies of its most recently submitted Worksheets E, Part A and E–4 from the Medicare cost report CMS-Form-2552–10 as part of its application for an increase to its FTE resident cap.

We are proposing that a hospital demonstrate and attest to a planned new program or expansion of an existing program by meeting at least one of the following two criterion:

- **Demonstrated Likelihood Criterion 1 (New Residency Program).** The hospital does not have sufficient room under its FTE resident cap, and the hospital intends to use the additional FTEs as part of a new residency program that it intends to establish on or after the date the increase would be effective (that is, a new program that begins training residents at any point within the hospital’s first five training years beginning on or after the date the increase would be effective). Under Demonstrated Likelihood Criterion 1, the hospital would be required to check at least one of the following as part of its application:
  - Application for approval of the new residency program has been submitted to the ACGME or the American Board of Medical Specialties (ABMS) by the application deadline for that year.
  - The hospital has submitted an institutional review document or program information form concerning the new residency program in an application for approval of the new program by the application deadline for that year.

- **Demonstrated Likelihood Criterion 2 (Expansion of an Existing Residency Program).** The hospital does not have sufficient room under its FTE resident cap, and the hospital intends to use the additional FTEs to expand an existing residency training program within the hospital’s first five training years beginning on or after the date the increase would be effective. Under Demonstrated Likelihood Criterion 2, the hospital would be required to check at least one of the following as part of its application:
  - The hospital has submitted an institutional review document or program information form concerning the expansion of the existing residency training program.
  - The hospital has submitted the application deadline an institutional review document or program information form for the expansion of the existing residency training program. Under Demonstrated Likelihood Criterion 2, the hospital would be applying for an increase in its FTE resident cap because it is expanding an existing residency program. We are proposing this means that as of the application deadline the hospital is either already training residents in this program, or, if the program exists at another hospital as of that date, the residents begin to rotate at the hospital beginning on or after the effective date of the increase. We note that section 1886(h)(9)(C)(ii) of the Act requires that if a hospital is awarded positions, that hospital must increase the number of its residency positions by the amount the hospital’s FTE resident caps are increased based on the newly awarded positions under section 126 of CAA. We are proposing that a hospital must, as part of its application, attest to increase the number of its residency positions by the amount the hospital’s FTE resident caps are increased based on any newly awarded positions.

(b) Determination of Hospitals That Are Located in a Rural Area or Are Treated as Being Located in a Rural Area (Category One)

Section 1886(h)(9)(B)(ii) of the Act requires the Secretary to distribute not less than 10 percent of resident positions available for distribution to each of four categories of hospitals.

Under section 1886(h)(9)(B)(ii) of the Act, the first of these categories consists of hospitals that are located in a rural area (as defined in section 1886(d)(2)(D) of the Act) or are treated as being located in a rural area pursuant to section 1886(d)(2)(E) of the Act. We refer to this category as Category One.

Section 1886(d)(2)(D)(ii) of the Act defines a rural area as any area outside a Metropolitan Statistical Area (MSA). Under the existing regulations at § 412.64(b)(1)(ii), an “urban area” means an MSA or a Metropolitan Division (in the case where a Metropolitan Statistical Area is divided into Metropolitan Divisions), as defined by the Executive Office of Management and Budget. Under existing § 412.64(b)(1)(ii)(C), a “rural area” means any area outside an urban area. Since FY 2005, we no longer use the term MSA, but instead use the term Core-Based Statistical Area (CBSA). Certain CBSAs are designated as urban, while those not designated as urban are considered rural. For purposes of Section 1886(h)(9)(B)(ii), we are proposing that a hospital with its main campus located in an area outside of an urban CBSA is a rural hospital. We note that this definition of “rural area” is consistent with our policy concerning designation of rural areas for wage index purposes.

Similar to our historical wage index policy of crosswalking counties to CBSAs as discussed in section III.A.4. of this proposed rule, CMS is proposing to use the County to CBSA Crosswalk and Urban CBSAs and Constituent Counties for Acute Care Hospitals File, or successor files containing similar information, from the most recent FY IPPS final rule (or correction notice if applicable) to determine if a hospital is a rural hospital. (This file would be available on the CMS website in
approximately August of the year prior to the year of the application deadline. Under the file’s current format, blank cells in Columns F and G indicate an area outside of a CBSA.)

Under section 1886(d)(8)(E) of the Act, a subsection (d) hospital (that is, generally, an IPPS hospital) that is physically located in an urban area is treated as being located in a rural area for purposes of payment under the IPPS if it meets criteria specified in section 1886(d)(8)(E)(ii) of the Act, as implemented in the regulations at §412.103. Under these regulations, a hospital may apply to CMS to be treated as located in a rural area for purposes of payment under the IPPS. Given the fixed number of available residency positions, it is necessary to establish a deadline by which a hospital must be treated as being located in a rural area for purposes of Category One. We are proposing to use Table 2, or a successor table containing similar information, posted with the most recent IPPS final rule (or correction notice if applicable) to determine whether a hospital is reclassified to rural under §412.103. If a hospital is not listed as reclassified to rural on Table 2, but has been subsequently approved by the CMS Regional Office to be treated as being located in a rural area for purposes of payment under the IPPS as of the application deadline for additional positions for the fiscal year, we are proposing that the hospital must submit its approval letter with its application in order to be treated as being located in a rural area for purposes of Category One.

(c) Determination of Hospitals for Which the Reference Resident Level of the Hospital Is Greater Than the Otherwise Applicable Resident Limit (Category Two)

Under section 1886(h)(9)(B)(ii)(II), the second category consists of hospitals in which the reference resident level of the hospital (as specified in section 1886(h)(9)(F)(iii)) is greater than the otherwise applicable resident limit. We refer to this category as Category Two.

Under section 1886(h)(9)(F)(iii), the term ‘reference resident level’ means, with respect to a hospital, the resident level for the most recent cost reporting period of the hospital ending on or before the date of enactment of section 1886(h)(9), December 27, 2020, for which a cost report has been settled (or, if not, submitted (subject to audit)), as discussed in this proposed rule.

Under section 1886(h)(9)(F)(i), the term ‘resident level’ has the meaning given such term in paragraph (7)(C)(i). That section defines ‘resident level’ as with respect to a hospital, the total number of full-time equivalent residents, before the application of weighting factors (as determined under paragraph (4)), in the fields of allopathic and osteopathic medicine for the hospital.

Under section 1886(h)(9)(F)(i), the term ‘otherwise applicable resident limit’ means, with respect to a hospital, the limit otherwise applicable under subparagraphs (F)(i) and (H) of paragraph (4) on the resident level for the hospital determined without regard to the changes made by this provision of CAA 2021, but taking into account section 1886(h)(7)(A), (7)(B), (8)(A), and (8)(B) of the Act. These paragraphs all address the distribution of positions and redistribution of unused positions.

In the CY 2011 OPPS final rule, we previously interpreted these terms when we implemented section 5503 of the Affordable Care Act. Under section 1886(h)(8)(H)(i) (as interpreted in the CY 2011 OPPS final rule (75 FR 46391)), the “reference resident level” generally refers to the number of unweighted allopathic and osteopathic FTE residents who are training at a hospital in a given cost reporting period. That is, the “reference resident level” refers to a hospital’s allopathic and osteopathic FTE resident count for a specific period. The definition can vary based on what calculation is being performed to determine the correct allopathic and osteopathic FTE resident count (see, for example, 42 CFR 413.79(c)(1)(ii)). As noted previously, section 126 of the CAA, under new section 1886(h)(9)(F)(iii) defines the “reference resident level” as coming from the most recent cost reporting period of the hospital ending on or before the date of enactment of the CAA (that is, December 27, 2020).

Under new section 1886(h)(9)(F)(i), the term “otherwise applicable resident limit” is defined as “the limit otherwise applicable under subparagraphs (F)(i) and (H) of paragraph (4) on the resident level for the hospital determined without regard to this paragraph but taking into account paragraphs (7)(A), (7)(B), (8)(A), and (8)(B).” We propose to define this as the hospital’s 1996 cap during its reference year, adjusted for the following: New programs as defined by LCME (see, for example, 42 CFR 413.79(c)(1)(ii)), the hospital’s allopathic and osteopathic medicine for the hospital.

Based on research and assistance received from LCME and the COCA, we propose to define consistently with the definitions in section 126 of the CAA; that is, the “resident level” under section 1886(h)(7)(c)(i), which is defined as the total number of full-time equivalent residents, before the application of weighting factors (as determined under paragraph (4)), in the fields of allopathic and osteopathic medicine for the hospital.

For the purposes of section 126 of the CAA we are proposing that the definitions of the terms “otherwise applicable resident level,” “reference resident level,” and “resident level” be as similar as possible to the definitions those terms have in the regulations at §413.79(c) as developed in the CY 2011 OPPS rulemaking.

(d) Determination of Hospitals Located in States With New Medical Schools, or Additional Locations and Branch Campuses (Category Three)

The third category specified in section 1886(h)(9)(B)(ii) of the Act, as added by section 126 of CAA, consists of hospitals located in States with new medical schools that received ‘Candidate School’ status from the Liaison Committee on Medical Education (LCME) or that received ‘Pre-Accreditation’ status from the American Osteopathic Association (AOA) Commission on Osteopathic College Accreditation (the COCA) on or after January 1, 2000, and that have achieved or continue to progress toward ‘Full Accreditation’ status (as such term is defined by the LCME or toward ‘Accreditation’ status (as such term is defined by the COCA); or additional locations and branch campuses established on or after January 1, 2000, by medical schools with ‘Full Accreditation’ status (as such term is defined by LCME) or ‘Accreditation’ status (as such term is defined by the COCA). We note that the statutory language is specific with respect to these definitions. We refer to this category as Category Three.

Based on research and assistance received from LCME and the COCA, we propose to define consistently with the definitions those terms have in the regulations at §413.79(c) as developed in the CY 2011 OPPS rulemaking.
fully accredited status within the first few years after they are established and begin training students. LCME grants candidate status to an applicant medical education program after it reviews and approves the medical school’s data collection instrument and planning self-study; at this point, it determines that the school is ready for a survey visit, and the preliminary accreditation survey visit is scheduled. After that visit, LCME reviews the survey team’s preliminary survey report and determines whether or not sufficient progress toward compliance with accreditation standards has been made and satisfactory plans for the medical education program have been developed.

If LCME grants preliminary accreditation status, the school may begin accepting applications for enrollment. During the second year of the school’s charter class, a school with preliminary accreditation status may submit information and receive a survey site visit to determine whether it meets criteria for provisional accreditation status. Finally, LCME grants full accreditation status to schools with provisional accreditation status, typically in the fourth teaching year, after determining that the school is in compliance with or has made significant progress toward attaining compliance with all full accreditation standards.

LCME defines a regional campus, comparable to “additional locations and branch campuses” in Section 1886(h)(9)(B)(ii)(III)(bb) of the Act, as a site distinct from the main campus of the medical school where students spend at least one full year of the curriculum. Regional campuses of a medical education program receive accreditation status through the main campus of the program and are not separately accredited. The COCA may grant pre-accreditation status to a proposed college of osteopathic medicine (COM) that has achieved candidate status and meets the standards of pre-accreditation status. The pre-accreditation process starts with the submission of a pre-accreditation self-study by a proposed COM; COCA staff then reviews the submission and conducts a site visit to examine the proposed COM’s compliance with accreditation standards. Following the site visit, the COCA reviews the site visit report and other submitted information and grants pre-accreditation status to a proposed COM that meets the pre-accreditation standards. Once a proposed COM receives pre-accreditation status, it may begin to recruit, accept applications from, and admit prospective students.

We note that prior to 2017, the COCA used the term “provisional status” instead of “pre-accreditation status.”

The COCA may grant accreditation status to a COM that has achieved pre-accreditation status and meets the standards for accreditation. These accreditation statuses include accreditation with exceptional outcome, accreditation, accreditation with heightened monitoring, accreditation with warning, and accreditation with probation. Any accreditation status constitutes full accreditation, in contrast to pre-accreditation status or candidate status, which do not constitute full accreditation status.

The COCA defines a branch campus as a geographically separate location apart from the COM’s main campus that is: Permanent in nature; offers courses in educational programming leading to a doctorate in osteopathic medicine; has its own faculty and administrative or supervisory organization; and maintains its own budgetary and hiring authority. A COM branch campus location must apply for and receive separate approval from the COCA; the application process has four steps: A written application and branch campus self-study, a progress report, a revised branch campus self-study and site visit, and a final, pre-operational site visit. The COCA defines an additional location as a location that is geographically separate from the main campus of a COM, but unlike a branch location, shares administration, faculty, curriculum, and budgetary authority with the main campus. Additional locations receive accreditation through the main campus of the COM following the review of documents and a survey site visit, after which a COM may enroll students in the additional location.

Based on information gathered from LCME and the COCA about new medical schools, additional locations, and branch campuses, we are proposing that hospitals located in the following 35 states and one territory, referred to as Category Three states, are Category Three hospitals: Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Kentucky, Louisiana, Massachusetts, Michigan, Mississippi, Missouri, Nevada, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Puerto Rico, South Carolina, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, and Wisconsin. If a hospital is located in a State not listed here, but believes it should be on this list, the hospital may submit a formal comment on this proposed rule to make a change to this list, or must provide documentation with submission of its application to CMS that the State in which it is located has a medical school or additional location or branch campus of a medical school established on or after January 1, 2000. Pursuant to the statutory language, all hospitals in such states are eligible for consideration; the hospitals, themselves, do not need to meet the conditions of section 1886(h)(9)(B)(ii)(III)(aa) or (bb) of the Act in order to be considered.

(e) Determination of Hospitals That Serve Areas Designated as Health Professional Shortage Areas Under Section 332(a)(1)(A) of the Public Health Service Act (Category Four)

The fourth category specified in the law consists of hospitals that serve areas designated as health professional shortage areas under section 332(a)(1)(A) of the Public Health Service Act (PHSA), as determined by the Secretary. We refer to this category as Category Four. The Health Resources and Services Administration (HRSA) designates certain areas as health professional shortage areas (HPSAs). Section 332(a)(1)(A) of the Public Health Service Act (PHSA), states that a “health professional shortage area” is an area in an urban or rural area (which need not conform to the geographic boundaries of a political subdivision and which is a rational area for the delivery of health services) which the Secretary determines lacks sufficient health care providers to meet the health care needs of that area’s population. HRSA designates HPSAs for primary care, mental health, and dental health.

A geographic area may be designated as a HPSA under section 332(a)(1)(A) of the PHSA only on the basis of a shortage of services for the entire population within that area (a “geographic HPSA”). Subsequent clauses of 332(a)(1) refer to other types of HPSAs, to which we will return later in this proposed rulemaking. The geographic area to which a geographic HPSA is assigned may be a single county, multiple counties, a county subdivision, or a census tract.

Section 126 of the CAA does not explicitly address the question of how HPSAs for different medical specialties should factor into determining which hospitals serve areas designated as HPSAs. In our consideration of this question, we began by examining the use of HPSAs in the HPSP Physician Bonus Program authorized under section 1833(m) of the Act. This program is relevant here because Congress established the program as an incentive to attract new
physicians to medically underserved communities and to encourage physicians in those areas to remain there (69 FR 47517 through 47518).

The HPSA Physician Bonus Program was created by Section 4043 of the Omnibus Budget Reconciliation Act (OBRA) of 1987, which added section 1833(m) to the Act. It provides incentive payments to physicians who furnish services to an individual in an area that is designated as a HPSA. Originally, under section 1833(m) of the Act, a 5 percent payment was added, beginning January 1, 1989, to the amounts otherwise payable to physicians who furnish services to Medicare patients in designated HPSAs. Section 6102 of OBRA 1989 further amended section 1833(m) of the Act to raise the amount of this incentive payment from 5 percent to 10 percent for services furnished after December 31, 1990. The OBRA 1989 amendment also expanded eligible service areas to include both rural and urban HPSAs. We next considered the role of primary care geographic HPSAs in the HPSA Physician Bonus program. Physicians furnishing services in a primary care geographic HPSA are eligible to receive the bonus payments and the payments apply to all physicians who perform covered services within a primary care geographic HPSA, regardless of specialty. Similarly, section 126 of the CAA does not explicitly distinguish between physician specialties for purposes of allocating the additional residency positions. Therefore, we are proposing that primary care geographic HPSAs be considered in determining what hospitals qualify under Category Four and that hospitals that have main campuses or provider-based facilities in these HPSAs may apply for additional residency positions for any specialty.

We also note CMS used primary care HPSAs for the allocation of residency positions for purposes of section 5503 of the ACA (75 FR 72147).

We next considered what hospitals under the HPSA Physician Bonus Program of areas that are solely mental health geographic HPSAs and not also primary care geographic HPSAs. We will refer to these areas as mental health only geographic HPSAs. The HPSA Physician Bonus Program provides incentive payments for services provided in mental health only geographic HPSAs, but not for services provided by psychiatry provider specialties. The distinction between primary care geographic HPSAs, in which all physician provider specialties, including psychiatry provider specialties, receive the incentive payments, and mental health only geographic HPSAs, in which only psychiatry provider specialties receive the incentive payments, is relevant to the question of how mental health geographic HPSAs should factor into determining hospitals that serve areas designated as HPSAs for purposes of section 126 of the CAA. We believe that it is appropriate to incorporate this feature of the HPSA Physician Bonus Program as well, and propose to use mental health only geographic HPSAs for mental health providers accordingly in the determination of hospitals that serve areas designated as HPSAs. Thus, we are proposing that hospitals that only have main campuses or provider-based facilities in mental health only geographic HPSAs may only apply for residency positions for psychiatry residency programs.

We next considered dental geographic HPSAs. Under section 1886(h)(4)(F) of the Act, for cost reporting periods beginning on or after October 1, 1997, a hospital’s unweighted FTE count of allopathic and osteopathic residents for purposes of direct GME may not exceed the hospital’s unweighted FTE count for direct GME in its most recent cost reporting period ending on or before December 31, 1996. Under section 1886(d)(5)(B)(v) of the Act, a similar limit based on the FTE count for IME during the same cost reporting period is applied effective for discharges occurring on or after October 1, 1997. Given that dental residents are not included in this statutory cap and that section 126 of the CAA distributes additional residency positions in the context of the statutory cap, we are not proposing that dental geographic HPSAs factor into the determination of whether a hospital serves a HPSA for purposes of section 126.

In summary, we are proposing to consider geographic HPSAs for primary care and mental health providers for purposes of determining hospitals that serve areas designated as HPSAs. We are proposing that hospitals that only have campuses or provider-based facilities in mental health only geographic HPSAs may only apply for positions for psychiatry residency programs. We are not proposing to consider dental HPSAs as dental FTE residents are not subject to a hospital’s IME and direct GME caps.

We next considered what hospitals serving areas designated as primary care or mental health HPSAs means for purposes of Category Four. As with the question regarding the role of primary care, mental health, and dental HPSAs, section 126 of the CAA does not explicitly address this question. There are many interpretations of what hospitals that serve areas designated as primary care or mental health HPSAs means for purposes of Category Four. The most expansive interpretation might be that this refers to the universe of hospitals where each hospital provides care to at least one patient that resides in a HPSA without regard to the location of the main campus of the hospital or of its other patient care locations. This interpretation could be made less expansive by developing a relative or absolute threshold for the number of patients of the hospital that reside in HPSAs. It could also be made less expansive by considering whether the physical location of the main campus of the hospital and/or other patient care locations are inside of or proximate to a HPSA.

In considering this issue, we prioritized objective factors that would maximize distribution of GME positions to residency programs serving underserved populations. See section V.J.2.a.4, for a further discussion of prioritizing care to underserved populations. To this end, we propose that a hospital is qualified under Category Four if it has its main campus or a provider-based facility under 42 CFR 413.65 physically located in a primary care or mental health geographic HPSA. Additionally, as part of the qualification requirements under Category Four, in the residency program for which the hospital is applying, at least 50 percent of the residents training time over the duration of the program must occur at those locations in the HPSA. We believe it is important to avoid the possibility that a hospital with provider-based facilities in multiple locations, some of which may not be located in a HPSA, uses an additional residency position mostly or entirely to serve populations that face no health service shortage.

A Category Four hospital must submit an attestation, signed and dated by an officer or administrator of the hospital who signs the hospital’s Medicare cost report that it has its main campus or a provider-based facility (under 42 CFR 413.65) physically located in a primary care or mental health geographic HPSA, and in the program for which the hospital is applying, at least 50 percent of the residents’ training time over the duration of the program occurs at those locations in the HPSA.

For example, Hospital A applies under Category Four for a psychiatry residency program. Its main campus is located in a non-HPSA area and it has one provider-based facility located in a mental health only geographic HPSA. Hospital A must attest that residents training in the psychiatry residency...
program spend at least 50 percent of the duration of their training in the program at its provider-based facility located in the mental health only geographic HPSA. As another example, Hospital B applies for a residency program. Its main campus is located in a primary care geographic HPSA and it has two provider-based facilities, one in the same geographic HPSA as the main campus and one in a non-HPSA area. Hospital B must attest that residents training in the program will spend at least 50 percent of the duration of their training in the program on the main campus or at the provider-based facility located in the geographic HPSA, combined (for example, 30 percent of the time on the main campus and 20 percent at the provider-based facility).

(f) Determination of Qualifying Hospitals

Section 1886(h)(9)(F)(ii) defines a qualifying hospital as a hospital described in any of the subclauses (I) through (IV) of subparagraph (B)(ii). In other words, a qualifying hospital is a Category One, Category Two, Category Three, or Category Four hospital, or one that meets the definitions of more than one of these categories.

(3) Number of Residency Positions Made Available to Hospitals and Limitation on Individual Hospitals

(a) Number of Residency Positions Made Available to Hospitals

Section 1886(h)(9)(A)(ii)(III) limits the aggregate number of total residency positions made available in a single fiscal year across all hospitals to no more than 200. In order to provide these additional residency positions to hospitals as quickly as possible, we are proposing to make 200 residency positions available for FY 2023 and each subsequent year.

(b) Limitation on Individual Hospitals

We expect the demand from hospitals for the aggregate number of total residency positions made available for each fiscal year to significantly exceed the 200 maximum. For example, there are currently over 300 teaching hospitals that have their main campus located in a primary care or mental health HPSA. We expect the majority of these hospitals would apply for additional residency positions because they would qualify under our proposed Category Four. Even if we were to exclusively allocate the maximum 200 positions permitted under the statute each year to these hospitals, which are only a subset of Category Four hospitals and Category Four itself is only one of four categories, it would still be insufficient to award even 1.0 FTE to each hospital each year. Therefore, in order to make additional residency positions available to more hospitals each year, we are proposing to limit the increase in the number of residency positions made available to each individual hospital to no more than 1.0 FTE each year. We note that this is not 1.0 FTE for each program at a hospital each year, it is 1.0 FTE for each hospital each year.

As noted earlier, section 1886(h)(9)(C) places certain limitations on the distribution of the residency positions, one of which is that a hospital may not receive more than 25 additional FTE residency positions. Under our proposed 1.0 FTE limitation, no hospital would receive more than 25 additional FTE residency positions.

(4) Prioritization of Applications From Hospitals for Residency Programs That Serve Underserved Populations

(a) Use of Geographic HPSAs and Population HPSAs

The Executive Order on “Ensuring an Equitable Pandemic Response and Recovery” noted that the COVID–19 pandemic has exposed and exacerbated severe and pervasive health and social inequities in America (see https://www.whitehouse.gov/briefing-room/presidential-actions/2021/01/21/executive-order-ensuring-an-equitable-pandemic-response-and-recovery/)

In order to help address these exposed health inequities longer term, we believe that it would be appropriate to prioritize the applications from hospitals that will use the additional residency positions under section 126 of the CAA in residency programs serving underserved populations. This prioritization is already partially reflected in our proposed Category Four, where we discussed maximizing the number of GME positions distributed to residency programs serving underserved populations in geographic HPSAs designated by HRSA under PHSA section 322(a)(1)(A). However, under PHSA section 332(a)(1)(B), HRSA also designates HPSAs on the basis of a shortage of services for a specific subset of the population (“population HPSAs”) rather than the entire population in an area as is the case in geographic HPSAs. These population subsets include, but are not limited to: Low-income populations, Medicaid-eligible populations, Native American populations, homeless populations, and migrant farmworker populations. (For information on the location and types of population HPSAs see https://data.hrsa.gov/tools/shortage-area/hpsa-find). In order to more fully address health inequities for underserved populations, we believe that it also would be appropriate to prioritize the applications from hospitals that serve the specific designated underserved population of a population HPSA.

We have already discussed our proposed definition in Category Four of hospitals that serve the populations of geographic HPSAs. Similar to that approach, we propose that a hospital serves a population HPSA if it has its main campus or a provider-based facility (under 42 CFR 413.65) physically located in a primary care or mental health population HPSA, and any such locations serve the designated underserved population of that HPSA. Additionally, as part of the qualification requirements under Category Four, in the residency program for which the hospital is applying, at least 50 percent of the residents’ training time over the duration of the program must occur at those locations in the HPSA. As with geographic HPSAs, we believe it is important to avoid the possibility that a hospital with provider-based facilities in multiple locations, some of which may not be located in a population HPSA or serve the designated population of that HPSA, uses an additional residency position mostly or entirely to serve populations that face no health service shortage.

Also similar to our proposed use of geographic HPSAs, we are proposing that hospitals that only have main campuses or provider-based facilities in mental health only population HPSAs may only apply for position for a psychiatry residency programs. Under our proposal, a hospital must submit an attestation, signed and dated by an officer or administrator of the hospital who signs the hospital’s Medicare cost report that it has its main campus or a provider-based facility (under 42 CFR 413.65) physically located in a primary care or mental health population HPSA, and any such locations serves the designated underserved population of that HPSA, and in the program for which the hospital is applying at least 50 percent of the residents’ training time over the duration of the program occurs at those locations in the HPSA.

We recognize that our proposed approach for population-based HPSAs means that we potentially would be awarding a residency position for the provision of care that is not exclusively provided to the designated underserved population for which the HPSA exists. However, in the context of our proposal discussed in this proposed rule...
to use HPSA scores to prioritize applications by the severity of the shortages, our proposal to limit the number of additional residency positions awarded to 1.0 FTE per hospital each year, and our proposal that at least 50 percent of the training time over the duration of the program occur at locations in the HPSA that serve the designated underserved population of that HPSA, we believe it is sufficient for the residents in a program to provide care to the designated underserved population of that HPSA, and it is not necessary for residents to provide care exclusively to that population.

We note that HRSA also designates certain facilities as HPSAs, either through an application process or on the basis of regulation or statute, under PHSA section 223(a)(1)(C). The process for facility HPSA designation is dissimilar from that for geographic and population HPSAs. Further, a HPSA score for a facility does not reflect on the adequacy of the health care workforce outside that facility in a geographic area, and so it is not comparable to geographic or population HPSAs. Therefore, we are not proposing to use facility HPSA designations for the purposes of this rulemaking.

We also note that there are teaching hospitals that may not have facilities in areas designated as geographic or population HPSAs, but that under its Medicare provider agreement operate one or more facilities that serve areas for which there exists a shortage of providers. If this is the case, we recommend that a hospital interested in applying for FTE resident cap positions under this section contact its State or territorial Primary Care Office (PCO). HRSA maintains cooperative agreements with the 54 State and territorial PCOs, which conduct needs assessments and submit applications to HRSA to designate areas as HPSAs. We refer interested parties to 42 CFR part 5 and 57 FR 2473 for information on procedures for HPSA designation for primary care and mental health HPSAs, respectively.

In summary, we propose to prioritize applications from qualifying hospitals (that is, hospitals that qualify under categories One through Four, as previously described), for residency programs that serve underserved populations in geographic HPSAs or population HPSAs. In the next section we discuss our proposed use of HPSA scores for this purpose.

(b) Use of HPSA Scores for Prioritization

HRSA assigns HPSA scores on a scale of 0 to 25 as a measure of the severity of a primary care or mental health provider shortage in a geographic area, with higher scores indicating a more severe health professional shortage. Using HPSA scores to differentiate applications from hospitals that qualify under categories One through Four would allow us to optimize the use of the limited number of additional residency positions under section 126 of the CAA and best address health inequities by focusing those residency positions on underserved populations with the most need.

In preparing its application for an additional residency position for a program, hospitals should refer to HRSA’s HPSA Find Tool (https://data.hrsa.gov/tools/shortage-area/hpsa-find) to obtain the HPSA score of the HPSA served by the program and include this score in its application. A HPSA is served by a program if that program meets the requirements discussed earlier. Given our proposal to limit the additional positions awarded to individual hospitals to 1.0 FTE for any given year, we are proposing that a hospital may not submit more than one application in any fiscal year. Given the limited number of residency positions available and the number of hospitals we expect to apply, we expect that a hospital would choose to apply for a program that serves the HPSA with the highest score among its programs, but a hospital is not required to do so.

We would allocate 1.0 FTE to each hospital with the highest HPSA score, prorating only in the event that the number of hospitals with the highest score exceeds the number of residency positions available. If the number of hospitals with the highest score is less than the number of residency positions available, each hospital with the next highest score would receive 1.0 FTE, with proration again occurring only in the event that the number of hospitals with this score exceeds the number of positions remaining. We would continue in this manner, moving on to hospitals with the next highest score until all available positions are distributed. We note that hospitals applying for residency positions for programs that do not serve HPSAs are not categorically excluded, but those applications would have the lowest priority.

As an illustrative example, assume the following hospitals apply, Hospitals A through HV. Assume there are 200 additional residency positions available. We propose that Hospitals A through ET would each get 1.0 FTE, while Hospitals EU through HV would each get a prorated FTE award of 0.625, as follows:

<table>
<thead>
<tr>
<th>HOSPITAL NAME</th>
<th>HPSA SCORE</th>
<th>FTEs AWARDED</th>
<th>FTEs DISTRIBUTED/REMAINING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AX (50 hospitals)</td>
<td>25</td>
<td>1.0</td>
<td>50/150</td>
</tr>
<tr>
<td>AY-CV (50 hospitals)</td>
<td>24</td>
<td>1.0</td>
<td>50/100</td>
</tr>
<tr>
<td>CW-ET (50 hospitals)</td>
<td>21</td>
<td>1.0</td>
<td>50/50</td>
</tr>
<tr>
<td>EU-HV (80 hospitals)</td>
<td>19</td>
<td>.625</td>
<td>50/0</td>
</tr>
</tbody>
</table>

In summary, under our proposal, additional residency positions under section 126 of the CAA will be distributed to hospitals that qualify under categories One through Four based on the HPSA score of the HPSA served by the residency program for which each hospital is applying, with programs serving higher HPSA scores receiving higher prioritization. Hospitals applying for residency positions for programs that do not serve HPSAs are not categorically excluded, but those applications would have the lowest priority.

(5) Alternative Considered for Prioritization

As alternative to our proposed prioritization approach, we considered a simpler prioritization approach for FY 2023 that would allow additional time to work with stakeholders to develop a more refined approach for future years. Under this alternative approach, CMS
would distribute 200 additional residency positions for FY 2023 among hospitals that qualify in Category One, Category Two, Category Three, and/or Category Four, with higher priority given to applications from hospitals that qualify in more categories. Hospitals that qualify under all four categories would receive top priority, hospitals that qualify under any three of the four categories would receive the next highest priority, then any two of the four categories, and finally hospitals that qualify under only one category. We would distribute 1.0 FTE to each hospital that qualified under all four categories, prorating only in the event that the number of hospitals that qualified under all four categories exceeds 200. If the number of hospitals that qualified under all four categories is less than 200, each hospital that qualified under three out of four categories would receive 1.0 FTE, with proration again occurring only in the event that the number of hospitals that qualified under three out of four categories exceeds the number of positions remaining. We would continue in this manner, moving on to hospitals that qualified under two out of four and one out of four categories until all 200 positions are distributed.

We seek comment on this alternative prioritization approach considered to allow for additional time to work with stakeholders to develop a more refined approach for future years.

(6) Distributing At Least 10 Percent of Positions to Each of the Four Categories

Section 1886(h)(9)(B)(ii) of the Act requires the Secretary to distribute at least 10 percent of the aggregate number of positions available to each of the following categories of hospitals discussed earlier: Category One, Category Two, Category Three, and Category Four.

We believe that because it is possible for a hospital to be eligible for distribution of additional residency positions via more than one of the four categories, Category One, Two, Three or Four, there is a strong likelihood that by prioritizing applications by HPSA score the result will be that 10 percent or more of the additional residency positions will be distributed to hospitals in each of the four categories. We propose to collect information regarding qualification for all four categories in applications to allow us to track progress in meeting all statutory requirements, and will evaluate the need to modify the distribution methodology in future rulemaking.

(7) Hospital Attestation to National CLAS Standards

In order to ensure that the residents are educated and trained in culturally and linguistically appropriate policies and practices, we propose that all applicant hospitals would be required to attest that they meet the National Standards for Culturally and Linguistically Appropriate Services in Health and Health Care (the National CLAS Standards). By requiring attestation by hospitals that training programs meet CLAS standards, CMS would ensure the section 126 additional residency position allocation broadens the availability of quality care and services to all individuals, regardless of preferred language, cultures, and health beliefs. For more information on the CLAS standards, please refer to https://minorityhealth.hhs.gov/omh/browse.aspx?lvl=2&lvlid=53.

(8) Payment for and Aggregation of Additional FTE Residency Positions Awarded Under Section 126 of the CAA

Section 1886(h)(9)(D) requires that CMS pay a hospital for additional positions awarded under this paragraph using the hospital’s existing direct GME PRAs for primary care and OB/GYN programs and non-primary care programs consistent with the regulations at § 413.77. However, similar to our implementation of section 5503 in the CY 2011 OPPS final rule (75 FR 72192) with respect to the application of direct GME PRAs for primary care and nonprimary care residents, for the implementation of section 126 of the CAA, we are proposing that a hospital that receives additional positions under section 126 would be paid for FTE residents counted under those positions using the same primary care and nonprimary PRAs for which payment is made for FTE residents subject to the 1996 FTE cap. We are expecting to revise Worksheet E-4 to add a line on which hospitals would report the number of FTEs by which the hospital’s FTE caps were increased for direct GME positions received under section 126.

(9) Conforming Regulation Amendments for 42 CFR 412.105 and 42 CFR 413.79

Section 126 of the CAA, under clause (b), amends section 1886(d)(5)(B) of the Act to provide for increases in FTE resident positions for IME payment purposes as well. Specifically, a new section 1886(d)(5)(B)(xii) is added to state that for discharges occurring on or after July 1, 2023, additional payment is made for FTE resident positions distributed to a hospital for direct GME purposes under section 1886(h)(9), the hospital will receive appropriate IME payment based on the additional residency positions awarded using the same IME adjustment factor used for the hospital’s other FTE residents. We are proposing conforming amendments to the IME regulations at 42 CFR 412.105 to specify that effective for portions of cost reporting periods beginning on or after July 1, 2023, a hospital may qualify to receive an increase in its otherwise applicable FTE resident cap if the criteria specified in 42 CFR 413.79(p) are met.

We are also proposing to amend our regulations at 42 CFR 413.79 to codify our proposal to specify that—(1) for portions of cost reporting periods beginning on or after July 1, 2023, a hospital may receive an increase in its otherwise applicable FTE resident cap (as determined by CMS) if the hospital meets the requirements and qualifying criteria under section 1886(h)(9) of the Act and if the hospital submits an application to CMS within the timeframe specified by CMS; and (2) FTE resident cap positions added under section 126 of Public Law 116–260 may be used in a Medicare GME affiliation agreement beginning in the 5th year after the effective date of those FTE resident cap positions.

(10) Prohibition on Administrative and Judicial Review

Section 126 of the CAA, under clause (c), prohibits review of section 1886(h)(9) of the Act. Specifically, it amends section 1886(h)(7)(E) of the Act by inserting “paragraph (9),” after “paragraph (8).”. Therefore, we are proposing that the determinations and distribution of residency positions under sections section 1886(d)(5)(B)(xii) and 1886(h)(9) of the Act are final without administrative or judicial review.

(11) Report by the Comptroller General

We note here for reference that section 126(d) of the CAA requires the Comptroller General of the United States to conduct a study and submit to Congress two reports on section 126 of the CAA, after the 5-year period of implementation is complete.

(12) Application Process for Receiving Increases in FTE Resident Caps

In order for hospitals to be considered for increases in their FTE resident caps, each qualifying hospital must submit a timely application. We are proposing that an application be considered timely for additional residency positions effective July 1 of fiscal year if it is completely submitted by January 31 of
the prior fiscal year. The following information must be submitted on an application to be considered completely submitted:

- The name and Medicare provider number of the hospital.
- The name of the Medicare contractor to which the hospital submits its Medicare cost report.
- The residency program for which the hospital is applying to receive an additional position.

- FTE resident counts for direct GME and IME and FTE resident caps for direct GME and IME reported by the hospital in the most recent as-filed cost report. (Including copies of Worksheets E, Part A, and E–4).
- If the hospital qualifies under Demonstrated Likelihood Criterion 1 (New Residency Program), which of the following applies:
  - Application for approval of the new residency program has been submitted to the ACGME or the American Board of Medical Specialties (ABMS) by the application deadline for that year.
  - The hospital has submitted an institutional review document or program information form concerning the new residency program in an application for approval of the new program by the application deadline for that year.

- The hospital has received written correspondence by the application deadline for that year from the ACGME or ABMS acknowledging receipt of the application for the new residency program, or other types of communication from the accrediting bodies concerning the new program approval process (such as notification of site visit).
- If the hospital qualifies under Demonstrated Likelihood Criterion 2 (Expansion of an Existing Residency Program), which of the following applies:
  - The hospital has approval by the application deadline from an appropriate accrediting body (the ACGME or ABMS) to expand the number of FTE residents in the program.
  - The hospital has submitted by the application deadline an institutional review document or program information form for the expansion of the existing residency training program.
  - Identification of the category that describes the hospital under section 126 of Division CC of the Consolidated Appropriations Act, 2021 (per section 1886(h)(9)(F)(ii) of the Social Security Act).

- (I) The hospital is located in a rural area (as defined in section 1886(d)(2)(D) of the Social Security Act) or are treated as being located in a rural area pursuant to section 1886(d)(8)(E) of the Social Security Act.
- (II) The reference resident level of the hospital (as specified in section 1886(h)(9)(F)(iii) of the Social Security Act) is greater than the otherwise applicable resident limit.
- (III) The hospital is located in a State with a new medical school (as specified in section 1886(h)(9)(B)(ii)(III)(aa) of the Act), or with additional locations and branch campuses established by medical schools (as specified in section 1886(h)(9)(B)(ii)(III)(bb) of the Act) on or after January 1, 2000.
- (IV) The hospital serves areas designated as health professional shortage areas (HPSAs) under section 332(a)(1)(A) of the Public Health Service Act, as determined by the Secretary.
- The HPSA (if any) served by the residency program for which the hospital is applying and the HPSA score for that HPSA.
- An observation, signed and dated by an officer or administrator of the hospital who signs the hospital’s Medicare cost report, of the following:
  - “I hereby certify that the hospital is a Qualifying Hospital under section 126 of Division CC of the Consolidated Appropriations Act, 2021 (per section 1886(h)(9)(F)(ii) of the Social Security Act).”
  - “I hereby certify the demonstrated likelihood that the hospital will fill the position made available under section 126 of Division CC of the Consolidated Appropriations Act, 2021 within the first 5 training years beginning after the date the increase would be effective, as determined by the Secretary (per section 1886(h)(9)(B)(i) of the Social Security Act).”
  - “I hereby certify that the hospital agrees to increase the number of its residency positions by the amount the hospital’s FTE resident caps are increased under section 126 of Division CC of the Consolidated Appropriations Act, 2021, if awarded positions (per section 1886(h)(9)(C)(ii) of the Social Security Act).”
  - “I hereby certify that if the residency program for which the hospital is applying serves a geographic or population Health Professional Shortage Area (HPSA), that the hospital has its main campus or a provider-based facility (under 42 CFR 413.65) physically located in that HPSA, any such locations serve the designated underserved population of that HPSA in the case of a population HPSA, and in the residency program for which the hospital is applying, at least 50 percent of the residents training time over the duration of the program occurs at those locations in the HPSA.”

We are soliciting comments on our proposals to implement section 126 of the CAA to help address health inequities and prioritize applications from hospitals that will use the additional positions in residency programs serving underserved populations.
b. Proposal for Implementation of Section 127 of the CAA, “Promoting Rural Hospital GME Funding Opportunity”

To encourage the training of residents in rural areas, section 407(c) of the Medicare, Medicaid, and SCHIP Balanced Budget Refinement Act of 1999 (Pub. L. 106–113) (BBRA) amended section 1886(h)(4)(H) of the Act to add a provision (subsection (iv)) stating that, in the case of a hospital that is not located in a rural area (an urban hospital) that establishes separately accredited approved medical residency training programs (or rural tracks) in a rural area, or has an accredited training program with an integrated rural track, the Secretary shall adjust the urban hospital’s cap on the number of FTE residents under subsection (F), in an appropriate manner in order to encourage training of physicians in rural areas. Section 407(c) of Public Law 106–113 was effective for direct GME payments to hospitals for cost reporting periods beginning on or after April 1, 2000, and for IME payments applicable to discharges occurring on or after April 1, 2000. We refer readers to the August 1, 2000 interim final rule with comment period (65 FR 47026, 47033 through 47037) and the FY 2002 IPPS final rule (66 FR 39902 through 39909) where we implemented section 407(c) of Public Law 106–113. The regulations for establishing rural track FTE limitations are located at 42 CFR 143.79(k) for direct GME and at 42 CFR 412.105(f)(1)(x) for IME.

In the August 1, 2003 IPPS final rule (68 FR 45456 through 45457), we clarified our existing policy that although the rural track provision allows an increase to the urban hospital’s FTE cap, sections 1886(h)(4)(H)(iv) and 1886(d)(5)(B) of the Act do not provide for an exclusion from the rolling average for the urban hospital for those FTE residents training in a rural track. These provisions are interpreted to mean that, except for new rural track programs begun by urban teaching hospitals that are establishing an FTE cap for the first time, an urban hospital that establishes a rural track FTE limitation would take effect. However, as previously stated, due to the statutory language at sections 1886(d)(5)(B) and 1886(h)(4)(H)(iv) of the Act as implemented in our regulations at §§ 412.105(f)(1)(v)(F) and 413.79(d)(7), except for new rural track programs begun by urban teaching hospitals that are establishing an FTE cap for the first time, FTE residents in a rural track training program (except for new rural track programs begun by urban teaching hospitals that are establishing an FTE cap for the first time).

Since implementation of the rural training track provision from the BBRA of 1999, stakeholders and advocates of residency training in rural areas have raised concerns about inequities and unintended consequences of the BBRA provision. First, the BBRA provision allows an urban hospital to receive additional cap slots based on the time that residents in the RTT train at the urban hospital. However, the provision does not specify that the Secretary would adjust the caps of an urban hospital that establishes separately accredited approved medical residency training programs (or rural tracks) in a rural area. Historically, the Accreditation Council for Graduate Medical Education (ACGME) has separately accredited family medicine programs in the “1–2 format” (meaning, residents in the 1–2 format receive their first year experience at a core family medicine program in an urban area, and their second and third year experiences at another site, which may or may not be rural). Because the ACGME has only accredited family medicine programs in the 1–2 format, CMS interpreted the provision to mean that hospitals cannot seek funding opportunities for rural tracks developed in specialties other than family medicine. Fourth, residents added to a RTT were previously not exempt from the 3-year rolling average for IME and direct GME. We believe that section 127 of the CAA remedies each of these concerns, explained in more detail in this proposed rule.

(i) Cap Adjustment for Urban and Rural Hospitals Participating in Rural Training Track Programs

As amended by the BBRA, section 1886(h)(4)(H)(iv) of the Act provided for IME and direct GME FTE resident cap adjustments for an urban hospital that establishes separately accredited rural tracks; however, the statute did not provide for a similar adjustment to rural hospitals participating in rural tracks. Specifically, section 1886(h)(4)(H)(iv) refers to the case of a hospital that is not located in a rural area but establishes separately accredited approved medical residency training programs (or rural tracks) in a rural area. Because of this explicit incentive and permission for FTE resident cap adjustments for an urban hospital that establishes a rural track, the rural track does not need to be new for Medicare payment purposes, as it otherwise would in order for the urban hospital to qualify for the FTE resident cap adjustments. That is, under section 1886(h)(4)(H)(iv) of the Act, if an urban hospital already had an accredited family medicine residency program, it could establish from that existing family medicine program, for the first time, a rural track, and, assuming all applicable requirements are met, that urban hospital could receive IME and direct GME FTE resident cap adjustments. However, with regard to a rural hospital participating in the second and third years of training in the rural track, since the BBRA language mention cap adjustments to rural hospitals, only if the program is new for Medicare.
payment purposes can the rural teaching hospital also receive a FTE resident cap adjustment for the program. (Under § 413.79(e)(3), any time that a rural hospital participates in training residents in a new program, the rural hospital may receive an increase to its FTE resident caps. We refer readers to the FY 2010 IPPS/LTCH PPS final rule for the criteria identifying a new program for Medicare payment purposes (74 FR 43908 through 43917)). In this case, a rural track established from an already existing urban family medicine program would not meet the newness requirement for the rural hospital. Consequently, Division CC, section 127 of the CAA 2021 revised section 1886(h)(4)(H)(iv) of the Act to state that in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural tracks) in a rural area, the Secretary must adjust in an appropriate manner the limitation under subparagraph (F) for such hospital and each such hospital located in a rural area that participates in such a training. This revision provides for cap adjustments for both the urban teaching hospital and the rural teaching hospital(s). We are proposing that each time an urban hospital and rural hospital establish a RTT program for the first time, even if the RTT program does not meet the newness criteria for Medicare payment purposes, both the urban and rural hospitals may receive a rural track FTE limitation. For example, Urban Hospital A has an existing internal medicine program. In July 2023, it partners with Rural Hospital 1 to create a RTT from the existing internal medicine program. We are proposing that both Urban Hospital A and Rural Hospital 1 may receive adjustments to their resident caps (rural track FTE limitations) to reflect their portions of FTE residents training in the RTT. We propose to make various changes throughout the regulations text at 42 CFR 413.79(k) “Residents training in rural track programs” to accommodate the rural track FTE limitations for both urban and hospitals. We also provide examples in this proposed rule, regarding how the rural track FTE limitations are calculated, according to the same methodology already in place at 42 CFR 413.79(k)(1) and as previously explained in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57028).

(ii) Cap Adjustments When the Urban Hospital Adds Additional Rural Training Tracks

As previously stated, under section 1886(h)(4)(H)(iv) prior to enactment of the CAA, if an urban hospital already had an accredited family medicine residency program, it could, for the first time, establish a rural track from that existing family medicine program and, assuming all applicable requirements were met, such hospital could receive the IME and direct GME FTE resident cap adjustments. Because section 1886(h)(4)(H)(iv) gave this explicit permission for FTE resident cap adjustments to an urban hospital that establishes a rural track, the rural track program does not need to be new for Medicare payment purposes in order for the urban hospital to qualify for the FTE resident cap adjustments. (We refer readers to the FY 2010 IPPS/LTCH PPS final rule for the criteria identifying a new program for Medicare payment purposes (74 FR 43908 through 43917)). However, after establishing its first RTT, the urban hospital can receive a rural track limitation adjustment for additional established RTTs only if those additional programs are “new” for Medicare payment purposes. We believe that section 127 of the CAA amends section 1886(h)(4)(H)(iv) such that it permits us to adjust the resident caps of an urban hospital wishing to create additional RTTs after establishing its first RTT, while also adjusting the residents caps of the rural hospital(s) added by creating the subsequent RTTs. Section 127 of the CAA amends section 1886(h)(4)(H)(iv) of the Act to add a new subclause which states that for cost reporting periods beginning on or after October 1, 2022, in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural tracks) in a rural area . . . adjust in an appropriate manner the limitation under subparagraph (F) for such hospital and each such hospital located in a rural area that participates in such a training. Because the law now states “established or establishes,” both past tense and future tense, we believe the statute grants the Secretary unique authority not previously held; that is, the authority to prospectively allow (under certain circumstances) cap adjustments to existing RTTs expanded in a cost reporting period beginning on or after October 1, 2022. That is, the provision gives explicit permission to adjust the RTT limitations of an urban hospital wishing to create additional RTTs after establishing its first RTT, while also adjusting the residents caps of the additional rural hospital(s) added by creating the second (or third, etc.) RTT. We believe this new statutory authority is separate and distinct from the statute’s requirement that, for IME and direct GME payment purposes, caps can be adjusted only for new teaching urban hospitals and for rural hospitals with new programs under section 1886(h)(4)(H)(i) of the Act. That is, in general, urban hospitals becoming teaching hospitals for the first time and rural hospitals may receive cap adjustments only if the program(s) in which they train residents is “new” in accordance with Medicare rules (as explained in detail at 74 FR 43908 through 43917). Therefore, under the explicit authority under section 127 of the CAA, we are proposing to prospectively allow increases to the IME and direct GME caps of both the participating urban and rural hospitals that expand a qualifying RTT. We are proposing that if, in a cost reporting period beginning on or after October 1, 2022, an urban hospital with an existing RTT (“hub”) adds an additional RTT (“spoke”) to the existing urban core program of the same specialty, the urban and rural hospitals may receive adjustments to their rural track FTE limitation. (For ease of reference, we are referring to the urban core hospital as the “hub” and the one or more RTTs as the “spokes” associated with that urban “hub.”) For example, Urban Hospital A has an existing family medicine program. In 2015, Urban Hospital A partnered with Rural Hospital 1 to create a RTT from the existing family medicine program and received rural track FTE limitation to reflect the time that residents training in the RTT spent at its facility. In July 2023, Urban Hospital A partners with Rural Hospital 2 in a different rural area of the State, to create an additional family medicine RTT (adding another “spoke” to the existing urban program “hub.”) We are proposing that both Urban Hospital A and Rural Hospital 2 may receive adjustments to their resident caps (rural track FTE limitations) to reflect the portion of the time that FTE residents in the second family medicine RTT “spoke” spend at their respective facility. We believe that allowing prospective adjustments to RTT FTE limitations for additional RTT “spokes” added in cost reporting periods beginning on or after October 1, 2022 is an efficient means of addressing rural healthcare workforce shortages, by allowing already experienced and successful urban “hub” RTTs to branch out and partner with additional rural communities, rather than relying solely on starting RTTs from scratch. That is, with the ability for CMS to provide funding for additional spokes, it should be easier for urban hospitals already have one RTT to reach rural areas more quickly and efficiently with the addition
of more spokes, rather than starting brand new “hubs”. However, we are proposing to limit the increases to the urban and rural hospitals’ RTT FTE limitations only in the instance where additional residents are recruited to add a new rural “spoke” RTT, and not to allow increases to the RTT FTE limitations in the instance where the urban and rural hospital add additional FTE residents to an existing rural RTT “spoke.” We believe it is appropriate to do so because section 127 of the CAA states that in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural tracks) in a rural area or establishes an accredited program where more than 50 percent of the program occurs in a rural area, the Secretary shall consistent with the principles of subparagraphs (F) and (G) and subject to paragraphs (7) and (8), prescribe rules for the application of such subparagraphs with respect to such a program and, in accordance with such rules, adjust in an appropriate manner the limitation under subparagraph (F) for such hospital and each such hospital located in a rural area that participates in such a training. That is, the statute directs the Secretary to adjust the cap (the limitation under subparagraph (F)) in an appropriate manner. We believe that “appropriate” means not rendering the RTT FTE limitations meaningless. If we would allow adjustments to the RTT FTE limitations at any time, for any type or any amount of expansion even to already existing rural site “spokes,” there would, in essence, not be any RTT FTE limitation at all. As a matter of public policy, as long as the FTE resident caps (that is, the “limitation under subparagraph (F)” are in place, we believe that CMS should be judicious with providing for additional funded cap slots, as that, in turn, encourages thoughtful residency program expansion among hospital stakeholders. Therefore, we are proposing to limit the provision of an increase to the urban and rural hospitals’ RTT FTE limitations only to the instance where additional residents are recruited to add a new rural RTT “spoke” to the existing urban “hub,” and not to allow increases under this section to the RTT FTE limitations in the instance where the urban and rural hospital add additional FTE residents to an existing rural RTT “spoke.” As with the general FTE resident caps, since the slots associated with the RTT FTE limitation are fungible, urban and rural hospital program occurs in a rural area, the Secretary may adjust the resident cap in their respective facilities. Thus, Urban Hospital A and Rural Hospital 1 would have cap/rural track FTE limitations reflecting FTE residents training in both a family medicine RTT and an internal medicine RTT.

(iii) Removal of Requirement That Rural Track Must Be “Separately Accredited”

Previously, section 1886(h)(4)(H)(iv) stated that the Secretary would adjust the caps of an urban hospital that establishes separately accredited approved medical residency training programs (or rural tracks) in a rural area. Historically, the ACGME has separately accredited family medicine programs in the “1–2 format” (meaning, residents in the 1–2 format) move their first year experience at a core family medicine program, and their second and third year experiences at another site, which may or may not be rural). Because the ACGME has only accredited family medicine programs in the 1–2 format, hospitals have not been able to seek additional funding opportunities for rural tracks developed in specialties other than family medicine. Since implementation of the original BBRA provision, stakeholders have expressed concern that FTE cap adjustments have not been permitted for sending residents to rural areas if the program was not a separately accredited family medicine RTT. Section 127 of the CAA removes the requirement that the rural track be “separately accredited.” Specifically, section 1886(h)(4)(H)(iv)(II) now states that in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural tracks) in a rural area, or establishes an accredited program where more than 50 percent of the training takes place in a rural area, the Secretary may adjust the resident cap in an appropriate manner. (Residency programs, whether they are “rural tracks” or any other program, must still be accredited under the law in order to receive IME and direct GME payments; see section 1886(h)(4)(H)(iv)(II) of the Act). Therefore, we are proposing that effective for cost reporting periods beginning on or after October 1, 2022, so long as the program in its entirety is accredited by the ACGME, regardless of the specialty, it may qualify as a RTT and urban and/or rural hospitals receive rural track FTE limitations, assuming all other requirements are met. (iv) Requirement That Greater Than 50 Percent of the Program Occurs in a Rural Area

Under existing regulations at 42 CFR 413.79(k)(1) and (2), the urban hospital establishing the RTT may only receive a cap/rural track FTE limitation to count residents in the RTT if the urban hospital rotates residents to either a rural hospital or rural non-provider site, for more than 50 percent of the duration of the program. As described in detail in rules implementing the original BBRA provision (see the August 1, 2000 interim final rule with comment period (65 FR 47033 through 47037) and the FY 2002 IPPS final rule (66 FR 39902 through 39909) where we implemented section 407(c) of Pub. L. 106–113), we adopted this greater than one-half duration rule based on the fact that residents training in separately accredited 1–2 family medicine RTTs spend greater than 50 percent of their training time in rural areas. We also wanted to ensure that cap adjustments would not be allowed for minimal
rotations to rural areas. Section 1886(h)(4)(H)(ii) is amended by section 127 of the CAA which states that in the case of a hospital not located in a rural area that established or establishes a medical residency training program (or rural tracks) in a rural area or establishes an accredited program where greater than 50 percent of the program occurs in a rural area, the Secretary shall consistent with the principles of subparagraphs (F) and (G) and subject to paragraphs (7) and (8), prescribe rules for the application of such subparagraphs with respect to such an accredited program. We believe section 127 of the CAA now requires in statute what CMS has required in regulation; that is, we are proposing that in order for urban or rural hospitals to receive FTE cap adjustments for residents training in RTTs, the residents must be in “an accredited program where greater than 50 percent of the program occurs in a rural area.” We believe that a “medical residency training program (or rural tracks)” refers to what the ACGME currently separately accredits as a 1–2 program; family medicine residencies that typically would have a first year in an urban hospital and second and third years in a rural hospital/setting. These separately accredited 1–2 family medicine RTTs may continue to maintain their RTT FTE limitations, assuming all applicable requirements are met. However, we are proposing that an “accredited program where greater than 50 percent of the program occurs in a rural area” is the new statutory authorization for development of rural tracks in specialties other than family medicine, because eligibility for cap adjustments is no longer tied exclusively to “separately accredited”, 1–2 programs. Specifically, as long as a program in its entirety is accredited by the ACGME, whether the program is in family medicine or in another specialty, and the residents spend more than 50 percent of the entire program in a rural area, then prospectively for cost reporting periods beginning on or after October 1, 2022, we are proposing to also provide additional slots to any program in any specialty. Therefore, for all accredited specialties, we are proposing to require that an urban hospital may include in its FTE count, not to exceed its rural track FTE limitation, the time residents train in the rural hospital only if the residents rotate to a rural area for greater than 50 percent of the duration of the particular program. For example, greater than 50 percent of the duration of a 3-year family medicine program would be more than 18 months rotating to a rural area; greater than 50 percent of the duration of a 4-year psychiatry program would be more than 24 months training in a rural area.

(v) Exemption From the 3-Year Rolling Average During the 5-Year Rural Track FTE Limitation Window

In the August 1, 2003 IPPS final rule (68 FR 45456 through 45457), we clarified our existing policy that although the rural track provision allows an increase to the urban hospital’s FTE cap, sections 1886(h)(4)(H)(iv) and 1886(d)(5)(B) of the Act do not provide for an exclusion from the rolling average for the urban hospital for those FTE residents training in a rural track. These provisions are interpreted to mean that, except for new rural track programs begun by urban teaching hospitals that are establishing an FTE cap for the first time, when an urban hospital with an FTE resident cap establishes a new rural track program or expands an existing rural track program, FTE residents in the rural track that are counted by the urban hospital are included in the hospital’s rolling average calculation immediately. This policy is reflected in the regulation at §412.105(f)(1)(v)(F) for IME and §413.79(d)(7) for direct GME, and applies for IME and direct GME to cost reporting periods beginning on or after April 1, 2000.

In addition, as stated in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57028), under the regulations at §412.105(a)(1)(i), no exception to the IME intern- and resident-to-bed (IRB) ratio cap is provided for residents in a rural track training program (except for new rural track programs begun by urban teaching hospitals that are establishing an FTE cap for the first time, or for rural hospitals, if the rural track meets the definition of a new program).

We believe that section 127 of the CAA amends section 1886(h)(4)(H)(iv) of the Act to provide for an exemption from the 3-year rolling average of the urban hospital and rural hospital during the 5-year growth window for FTE residents participating in rural tracks. Specifically, section 1886(h)(4)(H)(iv)(II) of the Act now states: “(II) New rural track facilities.—The Secretary shall, consistent with the principles of subparagraphs (F) and (G) and subject to paragraphs (7) and (8), prescribe rules for the application of such subparagraphs in the case of medical residency training programs established on or after January 1, 1995.” The previous rural track language at section 1886(h)(4)(H)(iv) did not mention subparagraph (G); therefore, the law did not exempt from the rolling average any residents participating in a rural track, even during the cap building window as we explained in the August 1, 2003 IPPS final rule (68 FR 45456 through 45457). Because section 127 of the CAA amends section 1886(h)(4)(H)(iv) to add in new subclause (II) which contains language modeled on the language for providing for FTE resident cap and rolling average exemptions in the case of new programs started on or after January 1, 1995, we are proposing that similarly, during the 5-year cap growth window for RTTs, the FTE residents participating in the RTT either at the urban hospital or a rural hospital would not be included in a hospital’s 3-year rolling average calculation during the cost reporting periods prior to the beginning of the applicable hospital’s cost reporting period that coincides with or follows the start of the sixth program year of each rural track. That is, just as residents in new programs are exempt from the 3-year rolling average until the cost reporting period that coincides with or follows the start of the sixth program year, similarly, effective for RTTs started in cost reporting periods beginning on or after October 1, 2022, for each rural track started, full-time equivalent residents at an urban hospital or rural hospital in a rural track program are excluded from the rolling average calculation during the cost reporting periods prior to the beginning
of the applicable hospital’s cost reporting period that coincides with or follows the start of the sixth program year of each rural track.

(vi) Proposed Changes to the Regulations Text

Although section 127 of the CAA directly amends section 1886(h) for direct GME, and does not specifically refer to amendments for IME, the existing language at section 1886(d)(5)(B)(viii) of the Act states that rules similar to the rules of subsection (h)(4)(H) shall apply for purposes of clauses (v) and (vi). Accordingly, the statutory authority to make corresponding changes to IME for rural tracks already exists. Clause (v) refers to the IME resident caps, and clause (vi) refers to the 3-year rolling average. Therefore, we are proposing to apply to the IME payment the new authority under section 1886(h)(4)(H)(iv) of the Act to allow urban and rural hospitals to receive IME rural track FTE limitations, as well as an exemption from the IME 3-year rolling average for FTE residents during the 5-year cap building window. We are proposing to make appropriate changes to the regulations text at 42 CFR 413.79(k) “Residents training in rural track programs.”

(vii) Documentation Required for Medicare Administrative Contractor (MAC) to Pay for RTTs

We intend to amend or clarify as necessary the Medicare cost report, CMS–2552–10, Worksheets E, Part A for IME and E–4 for direct GME, to accommodate additional rural track limitations. We expect that with this new authority to pay for more RTTs, MACs will face an influx of payment requests. While, as with payment for any GME program, hospitals must submit necessary documentation, to make review and processing of these new RTT payment requests more manageable, we are reiterating the documentation requirements here. That is, in order to facilitate the implementation of increases to RTT FTE limitations, either via interim payments or cost report adjustments, an urban hospital “hub” that adds one or more rural “spokes” in one or more specialties, we propose that the urban and rural hospitals must show its MAC the following:

- The accreditation for the “spoke”, information whether the “spoke” is in the same specialty as a RTT that the urban hospital already has, or whether the “spoke” is a newly created RTT in a different specialty.
- Intern and resident rotation schedules (or similar documentation) showing that residents in each particular RTT program (both hub and spokes overall) spend greater than 50 percent of their training in the program in a geographically rural area in order to receive IME and direct GME rural track FTE limitations.
- The number of FTE residents and the amount of time training in all 5 program years at both the urban and rural settings since establishment of the particular “spoke”, so that the MAC may be able to verify the RTT cap limitation.

Following are examples of how the urban and rural hospital’s rural track FTE limitations would be calculated:

Example 1: Urban Hospital and Rural Hospital jointly sponsor an accredited rural track program. The program is in internal medicine (3 years minimum accredited length), and is accredited for a total of 6 residents, 2 in each program year (PGY). The residents spend PGY1 at Urban Hospital, and then the PGY2s and PGY3s rotate to a rural area, to train at both Rural Hospital and Rural Clinic (a nonprovider site). The PGY2 and PGY3 residents, while mostly assigned to the rural area, do come back to the Urban Hospital for some required training. However, the residents spend more than 50 percent of the duration of the 3 year program in the rural area. Therefore, the Urban Hospital qualifies to receive a cap/rural track FTE limitation adjustment. Rural Hospital incurs the cost of the salaries and fringe benefits of the residents for the time spent training at Rural Clinic and meets other applicable requirements at § 413.78(g) to be able to count the time residents spend training at the Rural Clinic. The rotations and the cap calculation are as follows:
### Example 1:

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>YEAR 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGY 1 2.0 Urban Hospital</td>
<td>PGY 1 2.0 Urban Hospital</td>
<td>PGY 1 2.0 Urban Hospital</td>
<td>PGY 1 2.0 Urban Hospital</td>
<td>PGY 1 2.0 Urban Hospital</td>
</tr>
<tr>
<td>PGY 2 0</td>
<td>PGY 2 @ .90 Rural Hospital and Rural Clinic (1.8), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY 2 @ .90 Rural Hospital and Rural Clinic (1.8), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY 2 @ .90 Rural Hospital and Rural Clinic (1.8), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY 2 @ .90 Rural Hospital and Rural Clinic (1.8), 2 @ .10 Urban Hospital (.20)</td>
</tr>
<tr>
<td>PGY 3 0</td>
<td>PGY 3 2 @ .95 Rural Hospital and Rural Clinic (1.9), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY 3 2 @ .95 Rural Hospital and Rural Clinic (1.9), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY 3 2 @ .95 Rural Hospital and Rural Clinic (1.9), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY 3 2 @ .95 Rural Hospital and Rural Clinic (1.9), 2 @ .05 Urban Hospital (.10)</td>
</tr>
<tr>
<td><strong>TOTAL 2.0</strong></td>
<td><strong>TOTAL 4.0</strong></td>
<td><strong>TOTAL 6.0</strong></td>
<td><strong>TOTAL 6.0</strong></td>
<td><strong>TOTAL 6.0</strong></td>
</tr>
</tbody>
</table>

**Urban Hospital’s 5 YEAR FTE TOTAL = 11.1**  
Rural Hospital’s 5 YEAR FTE TOTAL (includes time at Rural Clinic) = 12.9  
5 Year FTE Total = 24

**Step 1:** Highest number of FTE residents training in any program year during fifth year across all participating hospitals is 2.0:  
PGY 1s = 2.0  
PGY 2s = 2.0  
PGY 3s = 2.0

**Step 2:** 2.0 × 3 (minimum accredited length) = 6.

**Step 3:** Urban Hospital’s cap adjustment is based on the ratio of training at Rural Hospital and Rural Clinic over all 5 years to the total training that is occurring at all sites over all 5 years: 6 × [12.9/(24)] = 3.24.

**Step 4:** Rural Hospital’s cap adjustment is based on the ratio of training at Urban Hospital over all 5 years to the total FTE residents from the 3-year rolling average calculation on their Medicare cost reports.

**Example 2:** Urban Hospital and Rural Hospital jointly sponsor an accredited rural track program. The program is in psychiatry (4 years minimum accredited length), and is accredited for a total of 8 residents, 2 in each program year (PGY). The residents spend PGY1 at Urban Hospital, and then the PGY2s and PGY3s and PGY4s rotate to a rural area, to train at both Rural Hospital and Rural Clinic (a nonprovider site). The PGY2 and PGY3 and PGY4 residents, while mostly assigned to the rural area, do come back to the Urban Hospital for some required training. However, the residents spend more than 50 percent (that is, more than 24 months) of the duration of the 4 year program in the rural area. Rural Hospital incurs the cost of the salaries and fringe benefits of the residents for the time spent training at Rural Clinic and meets other applicable requirements at § 413.78(g) to be able to count the time residents spend training at the Rural Clinic. The rotations and the cap calculation are as follows:
<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>YEAR 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
</tr>
<tr>
<td>PGY2 0 Urban Hospital and Rural Clinic (1.8), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Urban Hospital (.20)</td>
</tr>
<tr>
<td>PGY3 0 Urban Hospital and Rural Clinic (1.9), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Urban Hospital (.10)</td>
</tr>
<tr>
<td>PGY4 0 Urban Hospital and Rural Clinic (1.8), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY4 2 @ .90 Urban Hospital (.20)</td>
<td>PGY4 2 @ .90 Urban Hospital (.20)</td>
<td>PGY4 2 @ .90 Urban Hospital (.20)</td>
<td>PGY4 2 @ .90 Urban Hospital (.20)</td>
</tr>
</tbody>
</table>

TOTAL 2.0 TOTAL 4.0 TOTAL 6.0 TOTAL 8.0 TOTAL 8.0

5 Year Total = 28

Urban Hospital’s 5 YEAR FTE TOTAL = 11.5
Rural Hospital’s 5 YEAR FTE TOTAL (includes time at Rural Clinic) = 16.5

5 Year FTE Total = 28

Step 1: Highest number of FTE residents training in any program year during fifth year across all participating hospitals is 2.0:
PGY 1s = 2.0
PGY 2s = 2.0
PGY 3s = 2.0
PGY4s = 2.0.

Step 2: 2.0 × 4 (minimum accredited length) = 8.

Step 3: Urban Hospital’s cap adjustment is based on the ratio of training at Urban Hospital over all 5 years to the total training that is occurring at all sites over all 5 years: 8 × [11.5/(28)] = 3.29.

Step 4: Rural Hospital’s cap adjustment is based on the ratio of training at Rural Hospital and Rural Clinic over all 5 years to the total training that is occurring at all sites over all 5 years: 8 × [16.5/(28)] = 4.71.

3.29 + 4.71 = 8.0, the total cap assignment does not exceed the total number of accredited slots. Urban Hospital’s rural track FTE limitation is 3.29. Rural Hospital’s FTE cap adjustment is 4.71. (We note that this calculation is done separately for IME and direct GME caps respectively. Also note that during these 5 program years, the Urban Hospital and Rural Hospital exclude the FTE residents from the 3-year rolling average calculation on their Medicare cost reports.)

Example 3: Refer to Example 1 (as previously described), where Urban Hospital and Rural Hospital jointly sponsor an accredited internal medicine rural track program. The program is in internal medicine (3 years minimum accredited length), and is accredited for a total of 6 residents, 2 in each program year (PGY). Urban Hospital’s rural track FTE limitation is 3.29. Urban Hospital’s FTE cap adjustment is 4.71. In July 2023, Urban Hospital partners with Second Rural Hospital in a different rural part of the State to sponsor another internal medicine RTT (that is, Urban Hospital internal medicine “hub” is adding another “internal medicine RTT “spoke”.) Urban Hospital adds 2 FTE residents to train in PGY1 at the Urban Hospital, and then the PGY2s and PGY3s rotate to a rural area, to train at both Second Rural Hospital and Second Rural Clinic (a nonprovider site). The PGY2 and PGY3 residents, while mostly assigned to the rural area, do come back to the Urban Hospital for some required training. However, the residents spend more than 50 percent of the duration of the 3 year program in the rural area. Therefore, Urban Hospital qualifies to receive another rural track FTE limitation. Second Rural Hospital incurs the cost of the salaries and fringe benefits of the residents for the time spent training at Second Rural Clinic and meets other applicable requirements at § 413.78(g) to be able to count the time residents spend training at the Second Rural Clinic. The rotations and the cap calculation are as follows:
### TABLE:

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>YEAR 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
<td>PGY1 2.0 Urban Hospital</td>
</tr>
<tr>
<td>PGY2 2 @ .90 Rural Hospital and Rural Clinic (1.0), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Rural Hospital and Rural Clinic (1.0), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Rural Hospital and Rural Clinic (1.0), 2 @ .10 Urban Hospital (.20)</td>
<td>PGY2 2 @ .90 Rural Hospital and Rural Clinic (1.0), 2 @ .10 Urban Hospital (.20)</td>
<td></td>
</tr>
<tr>
<td>PGY3 2 @ .95 Rural Hospital and Rural Clinic (1.0), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Rural Hospital and Rural Clinic (1.0), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Rural Hospital and Rural Clinic (1.0), 2 @ .05 Urban Hospital (.10)</td>
<td>PGY3 2 @ .95 Rural Hospital and Rural Clinic (1.0), 2 @ .05 Urban Hospital (.10)</td>
<td></td>
</tr>
<tr>
<td>TOTAL 2.0</td>
<td>TOTAL 4.0</td>
<td>TOTAL 6.0</td>
<td>TOTAL 6.0</td>
<td>TOTAL 6.0</td>
</tr>
<tr>
<td>5 Year Total = 24</td>
<td>5 Year Total = 24</td>
<td>5 Year Total = 24</td>
<td>5 Year Total = 24</td>
<td>5 Year Total = 24</td>
</tr>
</tbody>
</table>

Urban Hospital’s 5 YEAR FTE TOTAL = 11.1
Second Rural Hospital’s 5 YEAR FTE TOTAL (includes time at Second Rural Clinic) = 12.9
5 Year FTE Total = 24

**Step 1**: Highest number of FTE residents training in any program year during fifth year across all participating hospitals is 2.0:
- PGY 1s = 2.0
- PGY 2s = 2.0
- PGY 3s = 2.0

**Step 2**: 2.0 × 3 (minimum accredited length) = 6.

**Step 3**: Urban Hospital’s cap adjustment is based on the ratio of training at Urban Hospital over all 5 years to the total training that is occurring at all sites over all 5 years:

\[
6 \times \frac{11.1}{24} = 2.76
\]

**Step 4**: Second Rural Hospital’s cap adjustment is based on the ratio of training at Rural Hospital and Rural Clinic over all 5 years to the total training that is occurring at all sites over all 5 years:

\[
6 \times \frac{12.9}{24} = 3.24
\]

Urban Hospital’s rural track FTE limitation is 2.76. Second Rural Hospital’s FTE cap adjustment is 3.24. This second rural track FTE limitation is added to Second Rural Hospital’s first rural track FTE limitation for a total rural track FTE limitation of 5.52 (2.76 + 2.76). Second Rural Hospital’s FTE cap adjustment is 3.24. This second rural track FTE limitation is added to Second Rural Hospital’s first rural track FTE limitation for a total rural track FTE limitation of 6.48 (3.24 + 3.24). (We note that this calculation is done separately for IME and direct GME caps respectively. Also note that during these 5 program years, the hospitals exclude the FTE residents from the 3-year rolling average calculation on their Medicare cost reports.)

We are soliciting comments on our proposals.

**c. Proposal for Implementation of Section 131 of the CAA, Addressing Adjustment of Low Per Resident Amounts (Direct GME) and Low FTE Resident Caps (Direct GME and IME) for Certain Hospitals**

Section 131 of the CAA provides us with the opportunity to reset the low or zero direct GME per resident amount of certain hospitals, and to reset the low IME and direct GME FTE resident caps of certain hospitals. Regarding direct GME PRAs, as stated previously, section 1886(h)(2) of the Act sets forth a methodology for the determination of a hospital-specific base-period PRA that is calculated by dividing a hospital’s allowable direct costs of GME in a base period by its number of full-time equivalent (FTE) residents in the base period. The base period is, for most hospitals, the hospital’s cost reporting period beginning in FY 1984 (that is, October 1, 1983 through September 30, 1984). For hospitals that became teaching hospitals after 1984, section 1886(h)(2)(F) of the Act states that “the Secretary shall, for the first such period for which it has such a residency training program and is participating under this title, provide for such approved FTE resident amount as the Secretary determines to be appropriate, based on approved FTE resident amounts for comparable programs. The regulations at 42 CFR 413.77(e)(1) implement this provision, stating that the per resident amount is based on the lower of the amount specified in paragraph (e)(1)(i) or paragraph (e)(1)(ii) of this section, subject to the provisions of paragraph (e)(1)(i)(ii) of this section. In other words, the new teaching hospital’s PRA generally will be based on the lower of its actual GME costs per FTE in its base period, or the weighted average PRA of existing teaching hospitals located in the same core-based statistical area (CBSA) as the new teaching hospital. Under section 1886(h)(2)(D) of the Act, once the PRA is established in a base period, no changes are made to it; it is only updated for inflation in each subsequent year.

The calculations of both direct GME payments and the IME payment adjustment are affected by the number of FTE residents that a hospital is
allowed to count. Congress, through the Balanced Budget Act of 1997 (Pub. L. 105–33), established a limit on the number of allopathic and osteopathic residents that a hospital may include in its FTE resident count for direct GME and IME payment purposes. Under section 1886(h)(4)(F) of the Act, for cost reporting periods beginning on or after October 1, 1997, a hospital’s unweighted FTE count of residents for purposes of direct GME may not exceed the hospital’s unweighted FTE count for direct GME in its most recent cost reporting period ending on or before December 31, 1996. Under section 1886(d)(5)(B)(v) of the Act, a similar limit based on the FTE count for IME during that cost reporting period is applied, effective for discharges occurring on or after October 1, 1997.

(1) Background on Establishment of PRAs and FTE Resident Caps for Hospitals Hosting Residency Training

Section 1886(h)(2)(F) of the Act does not require a hospital to incur costs, be the program sponsor, or train a certain minimum number of FTE residents, in order to become a teaching hospital. Accordingly, under the regulations at 42 CFR 415.152, “Teaching hospital” is defined as a hospital engaged in an approved GME residency program in medicine, osteopathy, dentistry, or podiatry. Our historical policy is that if a hospital has residents that are training in an approved GME residency program(s), and if the training is according to a planned and regular schedule (that is, not spontaneous or random), then consider the hospital to be a teaching hospital, even if—

• Is not incurring the costs of the residents’ salaries and fringe benefits,
• It is not the sponsor of the program,
• It is not a “new” program under Medicare rules,

It is only training a very small number of FTE residents.

In the past, a number of hospitals have found themselves in the situation of triggering establishment of a PRA, when they have served as a training site for only small numbers of residents from programs sponsored by a medical school or another hospital. In many cases, these hospitals did not incur any salaries for those residents and may have incurred only insignificant overhead costs associated with the residents’ presence at their facilities and, therefore, their PRAs were either very low or $0. Such low PRAs preclude meaningful direct GME payment in the future if these hospitals expand their training of residents and incur significant costs associated with the training. Section 131(a) of the CAA amends section 1886(h)(2)(F) of the Act to direct the Secretary, for such hospitals with such extremely low or $0 PRAs that meet certain criteria, to establish new PRAs using the methodology described in 42 CFR 413.77(e) if the hospital trains resident(s) in a cost reporting period beginning on or after its enactment (December 27, 2020) and before the date that is 5 years after enactment (December 26, 2025). In accordance with 42 CFR 413.77(e), a new teaching hospital’s PRA is based on the lower of its actual GME costs per FTE, or the weighted average PRA of existing teaching hospitals located in the same core-based statistical area (CBSA) as the new teaching hospital.

With regard to hospitals that have triggered establishment of a very small number of permanent IME and direct GME FTE caps (but greater than zero), this establishment occurs when a hospital participates in training residents in a new program started or accredited on or after January 1, 1995. The statute directs the Secretary to prescribe rules for the application of the FTE resident caps for approved medical residency training programs established on or after January 1, 1995 at section 1886(h)(4)(H)(i) of the Act. The regulations at 42 CFR 413.79(l) defines a “new medical residency training program” as a medical residency that receives initial accreditation by the appropriate accrediting body or begins training residents on or after January 1, 1995.” Similar to the circumstances under which a PRA is triggered, the law does not state that in order to establish permanent FTE caps, a hospital must incur the cost of the new program, be the sponsor of the new program, or train a specific number of FTE residents in the new program. Some previously non-teaching hospitals have hosted small numbers of residents who were in programs sponsored and funded by a medical school or another hospital. If those residents rotating to the previously non-teaching hospitals were in a new approved program, then that could have triggered establishment of IME and direct GME FTE resident caps at the previously non-teaching hospital.

Should the previously non-teaching hospital wish to participate in training residents in a significant manner in the future, such minimal FTE resident caps preclude receipt of meaningful IME and direct GME payments. Section 131(b) of the CAA addresses this problem by amending section 1886(h)(4)(H)(i) to add new subclauses (III) and (IV) to direct the Secretary, for hospitals that meet certain criteria and that have very small FTE resident caps, to “adjust”—that is, redetermine those caps if the Secretary determines the hospital begins training residents in a program year beginning on or after enactment (December 27, 2020) and before 5 years after enactment (December 26, 2025).

(2) Hospitals Qualifying To Reset Their PRAs

Section 131(a) of the CAA also amends section 1886(h)(2)(F) of the Act to add a new clause to the categories of hospitals that qualify to receive a replacement PRA. For ease of reference, we will refer to these hospitals as Category A and Category B. A Category A Hospital is one that, as of the date of enactment (December 27, 2020), has a PRA that was established based on less than 1.0 FTE in any cost reporting period beginning before October 1, 1997. Typically, a Category A hospital is one that trained less than 1.0 FTE in its most recent cost reporting period ending on or before December 31, 1996, and received a very low or $0 PRA. A Category B Hospital is one that, as of the date of enactment (December 27, 2020), has a PRA that was established based on training of no more than 3.0 FTEs in any cost reporting period beginning on or after October 1, 1997, and before the date of enactment (December 27, 2020). This new subclause provides that in lieu of these low PRAs, the Secretary shall, in accordance with § 413.77(e), establish a new PRA for each such hospital if the hospital trains at least 1.0 FTE (in the case of a Category A hospital) or more than 3.0 FTE (in the case of a Category B hospital) (emphasis added). The recalculation period begins on December 27, 2020, and ends 5 years later.

We are proposing that to redetermine the PRA, the training occurring at a Category A Hospital or a Category B Hospital need not necessarily be training residents in a new program; the residents may be in either an approved program that is “new” for Medicare IME and direct GME purposes, or may be in an existing approved program. This is because the new subclause does not state that the training be in a “new” program, and furthermore, CMS’s current policy is that for a hospital which starts training residents for the first time, the PRA can be established based on the training of residents in either a “new” approved program, or an existing approved program. However, for a Category A Hospital, we propose not to reset its PRA until we determine that the Category A Hospital trains at least 1.0 FTE, and that training must occur in a cost reporting period.
beginning on or after December 27, 2020 (date of enactment) and before December 26, 2025 (5 years after enactment). Similarly, for a Category B Hospital, we propose not to reset its PRA until we determine that the Category B Hospital trains more than 3.0 FTEs, and that training must occur in a cost reporting period beginning on or after December 27, 2020 (date of enactment) and before December 26, 2025 (5 years after enactment). Because new section 1886(h)(2)(F)(iii) uses the word “trains”, we interpret this to require “continuous” training, and therefore, we propose that for both Category A and B Hospitals, it is not relevant whether they may have trained at least 1.0 FTE or more than 3.0 FTEs in a cost reporting period or periods prior to December 27, 2020. While we propose that such previous training of at least 1.0 FTE or greater than 3.0 FTEs would not preclude resetting of a Category A Hospital’s PRA or a Category B Hospital’s PRA, we propose that the relevant factor in determining when to reset their PRAs is if and when the hospital trains the requisite amount of FTE residents in a cost reporting period beginning on or after December 27, 2020 (date of enactment) and 5 years after (December 26, 2025). For example, a Category A Hospital trains 6.05 FTEs in its cost reporting period beginning on January 1, 2020. The Category A Hospital trains 5.95 FTEs in its cost reporting period beginning on January 1, 2021. We are proposing that we would reset this Category A Hospital’s PRA effective with its cost reporting period beginning on January 1, 2021. In a second example, a Category B Hospital trains 6.05 FTEs in its cost reporting period beginning on January 1, 2020. The Category B Hospital trains 2.0 FTEs in its cost reporting period beginning on January 1, 2021. Then the Category B Hospital trains 3.25 FTE in its cost reporting period beginning on January 1, 2022. We are proposing that we would reset this Category B Hospital’s PRA effective with its cost reporting period beginning on January 1, 2022. Once reset, in the absence of additional legislation, the PRAs for either a Category A Hospital or a Category B Hospital are permanent, subject to annual inflation updates under 42 CFR 413.77(c)(1).

(3) Proposal for How To Calculate the Replacement PRA and Cost Reporting Requirements

Consistent with the new statute, we propose to calculate the replacement PRA using the existing regulations in place at 42 CFR 413.77(e). First, we propose to use as the PRA base period the first cost reporting period in which either the Category A Hospital or Category B Hospital trains their requisite threshold FTEs; that is, the cost report beginning on or after December 27, 2020 in which at least 1.0 FTE is trained at Category A Hospital, and the cost reporting period beginning on or after December 27, 2020 in which more than 3.0 FTEs are trained at Category B Hospital. Then, as 42 CFR 413.77(e)(1) states, we propose to amend the regulations to add a new § 413.77(e)(1)(iv) to establish the replacement PRA as the LOWER OF:

- The hospital’s actual cost per resident incurred in connection with the GME program(s) based on the cost and resident data from the hospital’s replacement base year cost reporting period; and
- The updated weighted mean value of per resident amounts of all hospitals located in the same geographic wage area is calculated using all per resident amounts (including primary care and obstetrics and gynecology and nonprimary care) and FTE resident counts from the most recently settled cost reports of those teaching hospitals.

- If there are fewer than three existing teaching hospitals with per resident amounts that can be used to calculate the weighted mean value per resident amount, for base periods beginning on or after October 1, 1997, the per resident amount equals the updated weighted mean value of per resident amounts of all hospitals located in the same census region as that term is used in subpart D of part 412 of this subchapter.

We plan on issuing instructions to the MACs and to hospitals to provide for an orderly process of request and review for the purpose of receiving replacement PRAs. The MACs of the Category A and Category B Hospitals would review the Medicare cost reports, GME costs, FTE counts, rotation schedules, etc. to determine at what point the requisite threshold of FTE residents are trained. As required under 42 CFR 413.20 and 413.24, hospitals must provide sufficient documentation to ensure proper payment (for GME, this includes, but is not limited to, rotation schedules and training agreements). We note that newly amended section 1886(h)(2)(F) of Act makes two points regarding cost reporting. First, clause 1886(h)(2)(F)(ii) states that in the case of a hospital that trains residents and has not entered into a GME affiliation agreement (as defined by the Secretary for purposes of paragraph (4)(H)(ii)), on or after the date of enactment of this clause, the Secretary has determined the FTE resident amount until such time as the Secretary determines that the hospital has trained as least 1.0 FTE resident in an approved medical residency training program in a cost reporting period. Medicare GME affiliation agreements, as implemented in the regulations at 42 CFR 413.79(f), permit teaching hospitals that cross train residents in the same programs to aggregate and share their FTE resident caps to facilitate movement of residents and reimbursement for that training. Entering into a Medicare GME affiliation agreement is a voluntary and conscious action on the part of a hospital. Therefore, even if a hospital trains less than 1.0 FTE (and this would be any hospital, not just a Category A Hospital or a Category B Hospital), but has entered into a Medicare GME affiliation agreement for that training, we believe the law is directing the Secretary to establish a PRA for that hospital. Thus, effective for a cost reporting period beginning on or after enactment (December 27, 2020), we are proposing to establish a PRA in the instance where a hospital trains less than 1.0 FTE and that hospital has entered into a Medicare GME affiliation agreement for that training. However, in the instance where a hospital did not enter into a Medicare GME affiliation agreement for that training, we propose to establish a PRA only when a hospital trains at least 1.0 FTE. We propose to amend the regulations at 42 CFR 413.79(f) to reflect this new provision.

Second, section 1886(h)(2)(F)(iv) states that for purposes of carrying out this subparagraph for cost reporting periods beginning on or after the date of the enactment of this clause, a hospital shall report full-time equivalent residents on its cost report for a cost reporting period if the hospital trains at least 1.0 full-time equivalent residents in an approved medical resident training program or programs in such period. Accordingly, we are proposing that both a Category A Hospital and a Category B Hospital must accurately report FTEs on the IME Worksheet E, Part A and the direct GME Worksheet E–4 of CMS-Form–2552–10, when in either category of hospital trains at least 1.0 FTE on or after December 27, 2020. We are further proposing that all hospitals, even if they do not classify as Category A or Category B Hospitals, must enter the FTE counts on Worksheets E, Part A and E–4 of the CMS–Form–2552–10, for cost reporting periods during which the hospital trains at least 1.0. In addition, the hospital must provide the information required by the Interns and Residents Information System (IRIS) software for a cost report that contains at least 1.0 FTEs on Worksheets E, Part A (IME) and E–4 (direct GME). We are
proposing this rule regardless of whether or not such hospital incurs the costs or is the program sponsor, because we believe that a PRA is established when a hospital trains at least 1.0 FTE (or, if there is a Medicare GME affiliation agreement, even less than 1.0 FTE). We are proposing to amend the regulations at 42 CFR 413.78(b), with a cross-reference to 42 CFR 413.77(e) and 413.79(f), to require that effective for a cost reporting period beginning on or after December 27, 2020, a hospital must report FTE residents on its Medicare cost report for a cost reporting period if: (1) In the absence of a Medicare GME affiliation agreement, a hospital trains at least 1.0 FTE in an approved program or programs; or (2) if there is a Medicare GME affiliation agreement, a hospital trains less than 1.0 FTE in an approved program or programs. This proposed regulation would put hospitals on notice that they would establish a PRA when they report FTE residents on their Medicare cost report beginning on or after December 27, 2020.

On a technical note, newly added clause 1886(h)(2)(F)(v) states that as appropriate, the Secretary may consider information from any cost reporting period necessary to establish a new FTE resident amount. Keeping in mind the regulations regarding predicate facts at 42 CFR 405.1885, our policy has been to refer, but not make changes, to a hospital’s “true” base year under 42 CFR 413.77(e), even if that base year cost report is beyond the 3-year reopening rules. For example, if, in 2019, a MAC discovered that a hospital trained a small number of FTE residents in its 2005 cost reporting period, the MAC would use the 2005 cost report and documentation to obtain direct GME costs (if any, or $0) and the FTE resident(s), determine a cost per FTE, and compare that to the 2005 weighted average PRA of the other teaching hospitals in the same CBSA, even though the 2005 cost report was beyond the 3-year reopening period. In accordance with 42 CFR 413.77(e), the MAC would establish the LOWER of the two amounts to be the hospital’s base year PRA. Going forward, we propose to continue to be consistent with our existing predicate fact regulations, such that we would not reopen cost reports beyond their 3-year reopening period, but would refer to and use whatever contemporaneous documentation we would need to establish a PRA.

However, because section 131 of the CAA directs the Secretary to replace a Category A Hospital’s PRA or a Category B Hospital’s PRA if the hospital trains at least 1.0 FTE or more than 3.0 FTE in a cost reporting period beginning on or after such date of enactment and before the date that is 5 years after, we are proposing to amend the regulations at 42 CFR 413.77(e) to use as the PRA base year for a Category A Hospital the cost reporting period beginning on or after December 27, 2020 and before December 26, 2025 in which that hospital trains at least 1.0 FTE, and for a Category B Hospital, the cost reporting period beginning on or after December 27, 2020 and before December 26, 2025 in which that hospital trains more than 3.0 FTEs. In determining whether a hospital trained the requisite thresholds of 1.0 or more than 3.0 FTEs, we propose not to round up; that is, an FTE count of 0.99 would not be rounded up to be at least 1.00 FTE. Rather, the FTE count would have to equal at least 1.00 without rounding applied. Similarly, an FTE count would have to add to be greater than 3.00 without rounding rules applied.

(4) Hospitals Qualifying To Reset Their FTE Resident Caps

Section 131(b) of the CAA 2021 amends section 1886(h)(4)(H)(i) of the Act to add new subclauses (II) through (V) to describe the categories of hospitals that qualify to receive a replacement PRA. For ease of reference, we continue to refer to these hospitals as Category A and Category B. A Category A Hospital is one that, as of the date of enactment (December 27, 2020), has an IME and/or direct GME FTE resident cap that was established based on less than 1.0 FTE in any cost reporting period beginning before October 1, 1997. Typically, a Category A hospital is one that did train less than 1.0 FTE in its most recent cost reporting period ending on or before December 31, 1996, and therefore, received FTE caps of less than 1.0 FTE (along with a very low or $0 PRA). Category B Hospital is one that, as of the date of enactment (December 27, 2020), has an IME and/or direct GME FTE resident cap that was established based on training of no more than 3.0 FTEs in any cost reporting period beginning on or after October 1, 1997, and before the date of enactment (December 27, 2020). The new subparagraphs (III) and (IV) provide that the Secretary shall adjust the FTE resident cap in the manner applicable to a new approved medical residency training program, which under subparagraph (V), states that the adjustment to the FTE resident cap shall be made in a manner consistent with the methodology, as appropriate, in § 413.77(e). Therefore, Secretary shall adjust the FTE resident caps if the hospital “begins training” at least 1.0 FTE (in the case of Category A) or “begins training” more than 3.0 FTE (in the case of Category B) in a program year beginning on or after such date of enactment and before the date that is 5 years after such date of enactment (emphases added).

Unlike our preceding proposal regarding resetting the PRAs of Category A and B Hospitals, where a training program does not necessarily need to be new, in the case of resetting the FTE resident caps, we are proposing that the FTE resident caps would only be reset when a Category A Hospital or Category B Hospital “begins training” FTE residents in a new residency program(s) (see our discussion of the definition of “new program” at 42 CFR 413.79(l) and 74 FR 43908 through 43917).

Specifically, we are proposing that the new subparagraphs (III) and (IV) state that the Secretary shall adjust the FTE resident caps in the manner applicable to a new program if the Secretary determines the hospital “begins training” the requisite number of FTE residents (emphasis added). We propose that “begins training” means future training in a new program for the first time on or after enactment. We propose that for both Category A and B Hospitals, it is not relevant whether they may have trained at least 1.0 FTE or more than 3.0 FTEs in a new program in a cost reporting period or periods prior to December 27, 2020; rather, we propose that the relevant factor in determining the timing of resetting their FTE resident caps is if the hospital first begins training the requisite amount of FTE residents at some point in a cost reporting period beginning on or after December 27, 2020 (date of enactment) and 5 years after (December 26, 2025).

For example, a Category A Hospital trains 6.05 FTEs in a new program in its cost reporting period beginning on January 1, 2017. Category A Hospital trains 15.95 FTEs in its cost reporting period beginning on January 1, 2021. We are proposing that we would NOT reset this Category A Hospital’s FTE resident caps effective with its cost reporting period beginning on January 1, 2021, because it first began training residents in a new program prior to its cost reporting period beginning on or after enactment, and continued to train FTE residents in the new program after enactment. Rather, in order to qualify for a replacement FTE resident cap, both a Category A Hospital and a Category B Hospital would have to wait to start training residents in a new program in a cost reporting period beginning on or after enactment. The Secretary shall adjust the FTE resident caps in a new program at some point prior to enactment, we are
proposing that they would not qualify to receive replacement FTE resident caps. For example, a Category A Hospital wanted to start training residents in a new program, but delayed doing so because it believed it could not support a new residency program with IME and direct GME FTE resident caps of less than 1.0. With the enactment of section 131 of the CAA, this Category A Hospital receives accreditation to start a new residency program, and begins to train at least 1.0 FTE residents in the new program on July 1, 2022. We propose to replace the small FTE resident caps of this Category A Hospital with new FTE resident caps in accordance with the regulations for calculating FTE resident caps for new programs at 42 CFR 413.79(e). We propose to apply the same policy for a Category B Hospital that waits to train more than 3.0 FTE residents in a new program in a cost reporting period on or after December 27, 2020.

(5) Proposal for How To Calculate the Replacement FTE Resident Caps and Cost Reporting Requirements

Consistent with the new statutory provisions, we would propose to calculate the replacement FTE resident caps using the existing regulations in place at 42 CFR 413.79(e)(1). First, we propose to use as the first program year of the 5-year cap building period in which either the Category A Hospital or Category B Hospital “begins training” their requisite threshold FTEs; that is, the program year beginning after December 27, 2020 in which at least 1.0 FTE begins to train at Category A Hospital, and the program year beginning after December 27, 2020 in which more than 3.0 FTEs are trained at Category B Hospital. Then, as 42 CFR 413.79(e)(1) states, we propose to calculate the FTE resident caps based on the sum of the products of the highest number of FTE residents in any program year during the fifth year of the first new program’s existence and the number of years in which residents are expected to complete the program based on the minimum accredited length for each type of program.

The ratio of the number of FTE residents in the new program that trained at the hospital over the entire 5-year period to the total number of FTE residents that trained at all hospitals over the entire 5-year period.

We plan on issuing instructions to the MACs and to hospitals to provide for an orderly process of request and review for the purpose of receiving replacement FTE resident caps. The MACs of the Category A and Category B Hospitals would review the Medicare cost reports (including rotation schedules, information regarding any nonprovider-site training, and accreditation information, etc.) to determine at what point the requisite threshold of FTE residents would be trained. As required under 42 CFR 413.20 and 413.24, hospitals must provide sufficient documentation to ensure proper payment (for GME, this includes, but is not limited to, rotation schedules and training agreements, and ACGME accreditation information).

Prospectively, consistent with new section 1886(h)(4)(H)(ii) of the Act, we propose not to establish permanent FTE resident caps for hospitals training residents in new programs begun on or after December 27, 2020, until we determine that in a cost reporting period beginning on or after December 27, 2020, the hospital trains at least 1.0 FTE in a new medical residency program. We propose to amend the regulations at 42 CFR 413.79(e) to reflect this new provision. We are proposing this for all hospitals that do not yet have caps triggered. Therefore, permanent FTE caps for new programs would no longer be triggered if the amount of FTEs being trained by a hospital in the new program equates to less than 1.0 FTE.

As with the resetting of the PRAs, newly added section 1886(h)(4)(H)(i)(V) states that as appropriate, the Secretary may consider information from any cost reporting period necessary to make such an adjustment to the limitation. Going forward, we propose to continue to be consistent with our existing predicate fact regulations at 42 CFR 405.1885, such that we would not reopen cost reports beyond their 3-year reopening period, but would refer to and use whatever contemporaneous documentation we would need to establish the FTE resident caps.

We are soliciting comments on our proposals regarding resetting the applicable PRAs and FTE resident caps.

d. Proposal for Intern and Resident Information System (IRIS) Data

Section 42 CFR 413.24(f)(5)(i) provides that a Medicare cost report for a teaching hospital is rejected for lack of supporting documentation if the cost report does not include a copy of the Intern and Resident Information System (IRIS) diskette. In accordance with 42 CFR 413.78(b) for direct GME and 2 CFR 412.105(f)(1)(iii)(A) for IME, no individual may be counted as more than one full-time equivalent (FTE). A hospital cannot claim the time spent by residents training at another hospital; if a resident spends time in more than one hospital or in a non-provider setting, the resident counts as a partial FTE based on the proportion of time worked at the hospital to the total time worked. A part-time resident counts as a partial FTE based on the proportion of total time worked compared to the total time necessary to fill a full-time internship or residency slot.

In 1990, we established the IRIS, under the authority of sections 1886(d)(5)(B) and 1886(h) of the Act, in order to facilitate proper counting of FTE residents who rotate to more than one site (that is, hospitals, non-provider settings). Teaching hospitals use the IRIS to collect and report information on residents training in approved residency programs. Section 42 CFR 413.24(f)(5)(i) requires teaching hospitals to submit the IRIS data along with their Medicare cost reports in order to have an acceptable cost report submission. We are in the process of issuing a new Extensible Markup Language (XML)-based IRIS file format that captures FTE resident count data consistent with the manner in which FTEs are reported on the Medicare cost report.

After receiving the IRIS data along with each teaching hospital’s cost report, the contractors upload the data to a national database housed at CMS, which can be used to identify “duplicates” that is, the same time period (for example, April 1 through April 3 of a given fiscal year) being claimed by more than one hospital in their GME/IME FTE resident count. If duplicates are identified, the contractors will make the hospitals that claimed the same time aware of this situation and will correct the duplicate reporting on the respective hospitals’ cost reports for direct GME and IME payment purposes.

Historically, we would collect the IRIS data from hospitals on a diskette, as referenced in 42 CFR 413.24(f)(5)(i). Because diskettes are no longer used by providers to furnish these data to contractors, in this proposed rule, we are proposing to remove the reference in
the regulations to a diskette and instead reference "Intern and Resident Information System data." Specifically, we are proposing to amend 42 CFR 413.24(f)(5)(i) by adding a new paragraph (A) to include this proposed revised language.

In addition, to enhance the contractors’ ability to review duplicates and to ensure residents are not being double-counted, we believe it is necessary and appropriate to require that the total weighted and unweighted FTE counts on the IRIS for direct GME and IME respectively, for all applicable allopathic, osteopathic, dental, and pediatric residents that a hospital may train, must equal the same total weighted and unweighted FTE counts for direct GME and IME reported on Worksheet E–4 and Worksheet E, Part A of the filed Medicare cost report. The need to verify and maintain the integrity of the IRIS data has been the subject of reviews by the Office of the Inspector General (OIG) over the years. An August 2014 OIG report cited the need for CMS to develop procedures to ensure that no resident is counted as more than one FTE in the calculation of Medicare GME payments (OIG Report No. A–02–13–01014, August 2014). More recently, a July 2017 OIG report recommended that procedures be developed to ensure that no resident is counted as more than one FTE in the calculation of Medicare GME payments (OIG Report No. A–02–15–01027, July 2017).

Therefore, effective for cost reporting periods beginning on or after October 1, 2021, we are proposing to add the requirement that IRIS data contain the same total counts of direct GME FTE residents (unweighted and weighted) and of IME FTE residents as the total counts of direct GME and IME FTE residents reported in the cost report. Specifically, we are proposing to amend 42 CFR 413.24(f)(5)(i) to state that, effective for cost reporting periods on or after October 1, 2021, the IRIS data must contain the same total counts of direct GME FTE residents (unweighted and weighted) and of IME FTE residents as the total counts of direct GME FTE and IME FTE residents reported in the hospital’s cost report, or the cost report will be rejected for lack of supporting documentation.

Providers would be required to use the new XML IRIS format for all cost reports with cost reporting periods beginning on or after October 1, 2021. CMS does not have a free download of the new IRIS XML format; the providers should use their vendors’ software to file their IRIS report with the Medicare Administrative Contractor.

K. Rural Community Hospital Demonstration Program

1. Introduction

The Rural Community Hospital Demonstration was originally authorized by section 410A of the Medicare Prescription Drug, Improvement, and Modernization Act of 2003 (MMA) (Pub. L. 108–173). The demonstration has been extended three times since the original 5-year period mandated by the MMA, each time for an additional 5 years: These extensions were authorized by sections 3123 and 10313 of the Affordable Care Act (Pub. L. 111–148) (Affordable Care Act), section 15003 of the 21st Century Cures Act (Pub. L. 114–255) (Cures Act), enacted in 2016, and most recently, by section 128 of the Consolidated Appropriations Act of 2021 (Pub. L. 116–260) (CAA 2021). In this proposed rule, we are summarizing the status of the demonstration program, and proposing the methodologies for continued implementation and budget neutrality under the extension authorized by section 128 of the Public Law 116–260.

2. Background

Section 410A(a) of Public Law 108–173 required the Secretary to establish a demonstration program to test the feasibility and advisability of establishing rural community hospitals to furnish covered inpatient hospital services to Medicare beneficiaries. The demonstration pays rural community hospitals under a reasonable cost-based methodology for Medicare payment purposes for covered inpatient hospital services furnished to Medicare beneficiaries. A rural community hospital, as defined in section 410A(f)(1), is a hospital that—

• Is located in a rural area (as defined in section 1886(d)(2)(D) of the Act) or is treated as being located in a rural area under section 1886(d)(8)(E) of the Act;
• Has fewer than 51 beds (excluding beds in a distinct part psychiatric or rehabilitation unit) as reported in its most recent cost report;
• Provides 24-hour emergency care services; and
• Is not designated or eligible for designation as a CAH under section 1820 of the Act.


Our policy for implementing the 5-year extension period authorized this year by Public Law 116–260 follows upon that for the previous extensions, under the Affordable Care Act (Pub. L. 111–148) and the Cures Act (Pub. L. 114–255).

Section 410A of Public Law 108–173 (MMA) initially required a 5-year period of performance. Subsequently, sections 3123 and 10313 of Public Law 111–148 (Affordable Care Act) required the Secretary to conduct the demonstration program for an additional 5-year period, to begin on the date immediately following the last day of the initial 5-year period. Public Law 111–148 required the Secretary to provide for the continued participation of rural community hospitals in the demonstration program during this 5-year extension period, in the case of a rural community hospital participating in the demonstration program as of the last day of the initial 5-year period, unless the hospital made an election to discontinue participation. In addition, Public Law 111–148 limited the number of hospitals participating to no more than 30.

Section 15003 of the Cures Act required the Secretary to conduct the demonstration for a 10-year extension period (in place of the 5-year extension period required by Public Law 111–148 (Affordable Care Act)). Specifically, section 15003 of Public Law 114–255 (Cures Act) amended section 410A(g)(4) of Public Law 108–173 (MMA) to require that, for hospitals participating in the demonstration as of the last day of the initial 5-year period, the Secretary would provide for continued participation of such rural community hospitals in the demonstration during the 10-year extension period, unless the hospital made an election, in such form and manner as the Secretary may specify, to discontinue participation. In addition, section 15003 of Public Law 114–255 added subsection (g)(5) to section 410A of Public Law 108–173 to require that, during the second 5 years of the 10-year extension period, the Secretary would apply the provisions of section 410A(g)(4) of Public Law 108–173 to rural community hospitals not described in subsection (g)(4) but that were participating in the demonstration as of December 30, 2014, in a similar manner as such provisions apply to hospitals described in subsection (g)(4).

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38280), we finalized our policy with regard to the effective date for the application of the reasonable cost-based payment methodology under the demonstration for those previously participating hospitals choosing to participate in the second 5-year extension period. According to our finalized policy, each previously participating hospital began the second 5 years of the 10-year extension period...
mandated by the Cures Act. In addition, the date immediately after the period of performance ended under the first 5-year extension period.

Seventeen of the 21 hospitals that completed their periods of participation under the extension period authorized by Public Law 111–148 (Affordable Care Act) elected to continue in the 5-year extension period authorized by Public Law 114–255 (Cures Act). Therefore, for these hospitals, this third 5-year period of participation started on dates ranging from May 1, 2015 through January 1, 2017, depending on when they had initially started. On November 20, 2017, we announced that 13 additional hospitals were selected to participate in the demonstration in addition to these 17 hospitals continuing participation from the first 5-year extension period. (These two groups are referred to as “newly participating” and “previously participating” hospitals, respectively.) We announced that each of these newly participating hospitals would begin its 5-year period of participation effective with the start of the first cost-reporting period or after October 1, 2017. One of the newly participating hospitals withdrew from the demonstration program prior to beginning participation in the demonstration on July 1, 2018. In addition, one of the previously participating hospitals closed effective January 2019, and another withdrew effective October 1, 2019. Therefore, 27 hospitals were participating in the demonstration as of this date—15 previously participating and 12 newly participating.

Each hospital has had its own end date applicable to this third five-year period for the demonstration. For four of the previously participating hospitals, this end date fell within FY2020, while for 11 of the previously participating hospitals, the end date would fall within CY 2021. (One of the hospitals within this group chose in February of 2020 to withdraw effective September of the previous year). The newly participating hospitals were all scheduled to end their participation either at the end of FY 2022 or during FY 2023.

Division CC, section 128 of CAA 2021 requires a 15-year extension period (that is, an additional five years beyond the current extension period), to begin on the date immediately following the last day of the initial 5-year period, instead of the 5-year extension period mandated by the Cures Act. In addition, the statute provides for continued participation for all hospitals participating in the demonstration program as of December 30, 2019. We, therefore, interpret the statute as providing for an additional 5-year period under the reasonable cost-based reimbursement methodology for the demonstration for the hospitals that were participating as of this date.

Given that four hospitals ended the 5-year period authorized by the Cures Act during FY 2020, we propose to keep to the policy finalized for the previous extensions, and apply the cost-based reimbursement methodology to the date following the last day of this previous period for each hospital that elects to continue participation. Likewise, each of the 22 hospitals with a scheduled end date during 2021, 2022, or 2023 and the hospital that withdrew in February 2020 will be eligible for an additional 5-year period starting from the day after the specified end date. Accordingly, the period of participation for the last hospital in the model under this most recent legislative authorization would extend until June 30, 2028.

4. Budget Neutrality

a. Statutory Budget Neutrality Requirement

Section 410A(c)(2) of Public Law 108–173 requires that, in conducting the demonstration program under this section, the Secretary shall ensure that the aggregate payments made by the Secretary do not exceed the amount that the Secretary would have paid if the demonstration program under this section was not implemented. This requirement is commonly referred to as “budget neutrality.” Generally, when we implement a demonstration program on a budget neutral basis, the demonstration program is budget neutral on its own terms; in other words, the aggregate payments to the participating hospitals do not exceed the amount that would be paid to those same hospitals in the absence of the demonstration program. We note that the payment methodology for this demonstration, that is, cost-based payments to participating small rural hospitals, makes it unlikely that increased Medicare outlays will produce an offsetting reduction to Medicare expenditures elsewhere. Therefore, in the 12 IPPS final rules spanning the period from FY 2005 through FY 2016, we adjusted the national inpatient PPS rates by an amount sufficient to account for the added costs of this demonstration program, thus applying budget neutrality across the payment system as a whole rather than merely across the participants in the demonstration program. (A different methodology was applied for FY 2017.) As we discussed in the FYs 2005 through 2017 IPPS/LTCH PPS final rules (69 FR 49183; 70 FR 47462; 71 FR 48100; 72 FR 47392; 73 FR 48670; 74 FR 43922, 75 FR 50343, 76 FR 51698, 77 FR 53449, 78 FR 50740, 77 FR 50145; 80 FR 49585; and 81 FR 57034, respectively), we believe that the statutory language of the budget neutrality requirements permits the agency to implement the budget neutrality provision in this manner.

b. General Budget Neutrality Methodology

We have generally incorporated two components into the budget neutrality offset amounts identified in the final IPPS rules in previous years. First, we have estimated the costs of the demonstration for the upcoming fiscal year, generally determined from historical, “as submitted” cost reports for the hospitals participating in that year. Update factors representing nationwide trends in cost and volume increases have been incorporated into these estimates, as specified in the methodology described in the final rule for each fiscal year. Second, as finalized cost reports became available, we determined the amount by which the actual costs of the demonstration for an earlier, given year differed from the estimated costs for the demonstration set forth in the final IPPS rule for the corresponding fiscal year, and incorporated that amount into the budget neutrality offset amount for the upcoming fiscal year. If the actual costs for the demonstration for the earlier fiscal year exceeded the estimated costs of the demonstration identified in the final rule for that year, this difference was added to the estimated costs of the demonstration for the upcoming fiscal year when determining the budget neutrality adjustment for the upcoming fiscal year. Conversely, if the estimated costs of the demonstration set forth in the final rule for a prior fiscal year exceeded the actual costs of the demonstration for that year, this difference was subtracted from the estimated cost of the demonstration for the upcoming fiscal year when determining the budget neutrality adjustment for the upcoming fiscal year. We note that we have calculated this difference for FYs 2005 through 2015 between the actual costs of the demonstration as determined from finalized cost reports once available, and estimated costs of the demonstration as identified in the applicable IPPS final rules for those years.
c. Budget Neutrality Methodology for the Extension Period Authorized by CAA 2021

For the newly enacted extension period, under CAA 2021, we propose to continue upon the general budget neutrality methodology used in previous years, and specifically to follow upon the determinations for the previous extension period, under the Cures Act.

(1) Budget Neutrality Methodology for Previous Extension Period Under the Cures Act

We finalized our budget neutrality methodology for periods of participation under this previous 5-year extension period in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38285 through 38287). Similar to previous years, we stated in this rule, as well as in the FY 2019 and FY 2020 IPPS/LTCH PPS proposed and final rules (83 FR 20444 and 41503, and 84 FR 19452 and 42421, respectively) that we would incorporate an estimate of the costs of the demonstration, generally determined from historical, “as submitted” cost reports for the participating hospitals, and appropriate update factors, into a budget neutrality offset amount to be applied to the national IPPS rates for the upcoming fiscal year. In addition, we stated that we would continue to apply our general policy from previous years of including, as a second component to the budget neutrality offset amount, the amount by which the actual costs of the demonstration for an earlier, given year (as determined from finalized cost reports, when available) differed from the estimated costs for the demonstration set forth in the final IPPS rule for the corresponding fiscal year.

In these proposed and final rules, we described several distinct components to the budget neutrality offset amount for the specific fiscal years of the extension period authorized by the Cures Act.

We included a component to our overall methodology similar to previous years, according to which an estimate of the costs of the demonstration for both previously and newly participating hospitals for the upcoming fiscal year is incorporated into a budget neutrality offset amount to be applied to the national IPPS rates for the upcoming fiscal year. In the FY 2019 IPPS final rule (83 FR 41506), we included such an estimate of the costs of the demonstration for each of FYs 2018 and 2019 into the budget neutrality offset amount for FY 2019. In the FY 2020 IPPS final rule (84 FR 42421), we included an estimate of the costs of the demonstration for FY 2020 for 28 hospitals. In the FY 2021 IPPS final rule (85 FR 58873), we included an estimate of the costs of the demonstration for FY 2021 for the 22 hospitals for which the cost-based reimbursement methodology was to apply for all or part of FY 2021.

Similar to previous years, we continued to implement the policy of determining the difference between the actual costs of the demonstration as determined from finalized cost reports for a given fiscal year and the estimated costs indicated in the corresponding year’s final rule, and including that difference as a positive or negative adjustment in the upcoming year’s final rule. (For each previously participating hospital that decided to participate in the 5-year extension period under the Cures Act, the cost-based payment methodology methodology began on the date immediately following the end date of its period of performance for the still previous extension period (under the Affordable Care Act). In addition, for previously participating hospitals that converted to CAH status during the time period of the second 5-year extension period, the demonstration payment methodology was applied to the date following the end date of its period of performance for the first extension period to the date of conversion). In the FY 2020 final rule, we included the difference between the amount determined for the cost of the demonstration in each of FYs 2014 and 2015 and the estimated amount included in the budget neutrality offset in the final rule for each of these respective fiscal years. For FY 2016 and subsequent years, we will use finalized cost reports when available that detail the actual costs of the demonstration for each of these fiscal years and incorporate these amounts into the budget neutrality calculation.

(2) Methodology for Estimating Demonstration Costs for FY 2022

We are using a methodology similar to previous years, according to which an estimate of the costs of the demonstration for the upcoming fiscal year is incorporated into a budget neutrality offset amount to be applied to the national IPPS rates for the upcoming fiscal year, that is, FY 2022. We are conducting this estimate for FY 2022 based on the 27 hospitals that are eligible to continue participation in demonstration for the fiscal year. The methodology for calculating this amount for FY 2022 proceeds according to the following steps:

Step 1: For each of these 27 hospitals, we identify the reasonable cost amount calculated under the reasonable cost-based methodology for covered inpatient hospital services, including swing beds, as indicated on the “as submitted” cost report for the most recent cost reporting period available. For each of these hospitals, the “as submitted” cost report is that with cost report period end date in CY 2019. We sum these hospital-specific amounts to arrive at a total general amount representing the costs for covered inpatient hospital services, including swing beds, across the total 27 hospitals eligible to participate during FY 2022. Then, we multiply this amount by the FYs 2020, 2021 and 2022 IPPS market basket percentage increases, which are calculated by the CMS Office of the Actuary. (We are using the proposed market basket percentage increase for FY 2022, which can be found in section II.A. of the addendum to this proposed rule). The result for the 27 hospitals is the general estimated reasonable cost amount for covered inpatient hospital services for FY 2022.

Consistent with our methods in previous years for formulating this estimate, we are applying the IPPS market basket percentage increases for FYs 2020 through 2022 to the applicable estimated reasonable cost amount (previously described) in order to model the estimated FY 2022 reasonable cost amount under the demonstration. We believe that the IPPS market basket percentage increases appropriately indicate the trend of increase in inpatient hospital operating costs under the reasonable cost methodology for the years involved.

Step 2: For each of the participating hospitals, we identify the estimated amount that would otherwise be paid in FY 2022 under applicable Medicare payment methodologies for covered inpatient hospital services, including swing beds (as indicated on the same set of “as submitted” cost reports as in Step 1), if the demonstration were not implemented. We sum these hospital-specific amounts, and, in turn, multiply this sum by the FYs 2020, 2021 and 2022 IPPS applicable percentage increases. (For FY 2021, we are using the proposed applicable percentage increase, per section II.A. of the Addendum of this proposed rule). This methodology differs from Step 1, in which we apply the market basket percentage increases to the hospitals’ applicable estimated reasonable cost amount for covered inpatient hospital services. We believe that the IPPS applicable percentage increases are appropriate factors to update the estimated amounts that generally would otherwise be paid without the demonstration. This is because IPPS
payments constitute the majority of payments that would otherwise be made without the demonstration and the applicable percentage increase is the factor used under the IPPS to update the inpatient hospital payment rates.

Step 3: We subtract the amount derived in Step 2 from the amount derived in Step 1. According to our methodology, the resulting amount indicates the total difference for the 27 hospitals (for covered inpatient hospital services, including swing beds), which will be the general estimated amount of the costs of the demonstration for FY 2022. For this proposed rule, the resulting amount is $63,829,479, which we are incorporating into the budget neutrality offset adjustment for FY 2022. This estimated amount is based on the specific assumptions regarding the data sources used, that is, recently available “as submitted” cost reports and historical update factors for cost and payment. If updated data become available prior to the final rule, we will use them as appropriate to estimate the costs for the demonstration program for FY 2022 in accordance with our methodology for determining the budget neutrality estimate.

(3) Reconciling Actual and Estimated Costs of the Demonstration for Previous Years

As described earlier, we have calculated the difference for FYs 2005 through 2015 between the actual costs of the demonstration, as determined from finalized cost reports once available, and estimated costs of the demonstration as identified in the applicable IPPS final rules for these years.

In the FY 2021 proposed rule, we stated that if finalized cost reports for the entire set of hospitals that completed cost report periods under the demonstration payment methodology beginning in FY 2016 were available by the time of the final rule, we would include in the final budget neutrality offset amount the difference between the actual costs as determined from these cost reports and the estimated amount in the FY 2016 final rule.

When the complete set of finalized cost reports were not available for the FY 2021 final rule, we stated that we would aim to include this difference within the FY 2022 proposed and final rules. At this time still, all of the cost reports have not been finalized for the 18 hospitals that completed cost report periods under the demonstration payment methodology beginning in FY 2016. If the entire set of finalized cost reports is available in time for the FY 2022 final rule, we will be able to incorporate this amount in the overall budget neutrality offset amount.

(4) Total Proposed Budget Neutrality Offset Amount for FY 2022

Therefore, for this FY 2022 IPPS/LTCH PPS proposed rule, the budget neutrality offset amount for FY 2022 is based on the amount determined under section V.K.c.(2). of the preamble of this proposed rule, representing the difference applicable to FY 2022 between the sum of the estimated reasonable cost amounts that would be paid under the demonstration for covered inpatient services to the 27 hospitals eligible to participate in the fiscal year and the sum of the estimated amounts that would generally be paid if the demonstration had not been implemented. This estimated amount is $63,829,479. We propose to subtract this amount from the national IPPS rates for FY 2022. We note, however, that the overall amount might change if there are any revisions prior to the final rule to the data used to formulate this estimate. In addition, if the entire set of finalized cost reports for FY 2016 is available ahead of the final rule, we will also include this amount within the total budget neutrality offset amount to be applied to the FY 2022 national IPPS rates.

L. Market-Based MS–DRG Relative Weight Policy—Proposed Repeal (§ 413.20)

1. Overview

In the FY 2021 IPPS/LTCH PPS final rule, we finalized a requirement for a hospital to report on the Medicare cost report the median payer-specific negotiated charge that the hospital has negotiated with all of its MA organization payers, by MS–DRG, for cost reporting periods ending on or after January 1, 2021 (85 FR 58873 through 58892); this data collection requirement is specified in 42 CFR 413.20(d)(3). We also finalized the use of this data in a new market-based methodology for calculating the IPPS MS–DRG relative weights to reflect relative market-based pricing, beginning in FY 2024. Specifically, we finalized that we will begin using the reported median payer-specific negotiated charge by MS–DRG for MA organizations in the market-based MS–DRG relative weight methodology beginning with the relative weights calculated for FY 2024.

2. Proposed Repeal of the Market-Based MS–DRG Relative Weight Data Collection and Market-Based Methodology for Calculating MS–DRG Relative Weights

After further consideration of the many contract arrangements hospitals use to negotiate rates with MA organization payers, and the usefulness, for ratesetting purposes, of the market-based data as reported in accordance with the FY 2021 IPPS/LTCH PPS final rule, we are proposing to repeal the requirement that a hospital report on the Medicare cost report the median payer-specific negotiated charge that the hospital has negotiated with all of its MA organization payers, by MS–DRG, for cost reporting periods ending on or after January 1, 2021. We are also proposing to repeal the market-based MS–DRG relative weight methodology that was adopted effective for FY 2024, and to continue using the existing cost-based methodology for calculating the MS–DRG relative weights for FY 2024 and subsequent fiscal years. Comments received on the 60-day Paperwork Reduction Act (PRA) revision request of the information collection requirement (ICR) (approved under OMB control number 0938–0050, expiration date March 31, 2022, published on November 10, 2020 (85 FR 71653 and 71654)), also provided further questions for us to examine regarding the usefulness of this data, and requested that we consider a delay or repeal of this policy. In light of these questions and for the reasons discussed, we are proposing to repeal the market-based data collection and MS–DRG relative weight methodology to allow for further consideration of these questions and possible alternative approaches.

We also propose to amend 42 CFR 413.20(d)(3) to reflect the proposed repeal of the market-based MS–DRG relative weight data collection requirement. Specifically, we propose to amend 42 CFR 413.20(d)(3) to remove the requirement at 42 CFR 413.20(d)(3)(i)(B) that a provider furnish the contractor its median payer-specific negotiated charge by MS–DRG for payers that are MA organizations, as applicable, and changes thereto as they are put into effect, and to renumber the existing provisions accordingly.

In light of this proposal to repeal the requirement for hospitals to report this median payer-specific negotiated charge data on the cost report, we will revise the forthcoming revision of the Information Collection Report currently approved under OMB control number 0938–0050, expiration date March 31, 2022, accordingly.
We are inviting public comment on our proposal to repeal the market-based data collection requirement and market-based MS–DRG relative weight methodology. We also invite public comment on alternative approaches or data sources that could be used in Medicare fee-for-service (FFS) ratessetting.

**M. Payment Adjustment for CAR T-cell Clinical Trial and Expanded Access Use Immunotherapy Cases (§§ 412.85 and 412.312)**

As discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58599 through 58600), we created MS–DRG 018 for cases that include procedures describing CAR T-cell therapies, which were reported using ICD–10–PCS procedure codes XW033C3 or XW043C3. We refer the reader to section II.D.2. of this proposed rule for discussion of the procedure codes for CAR T-cell and non-CAR T-cell therapies and other immunotherapies that we are proposing for assignment to MS–DRG 018 for FY 2022. In the FY 2021 IPPS/LTCH PPS final rule, we modified our relative weight methodology for MS–DRG 018 in order to develop a relative weight that is reflective of the typical costs of providing CAR T-cell therapies relative to other IPPS services. Specifically, we finalized to not include claims determined to be clinical trial claims that group to new MS–DRG 018 when calculating the average cost for new MS–DRG 018 that is used to calculate the relative weight for this MS–DRG, with the additional refinements that (a) when the CAR T-cell therapy product is purchased in the usual manner, but the case involves a clinical trial of a different product, the claim will be included when calculating the average cost for new MS–DRG 018 to the extent such claims can be identified in the historical data, and (b) when there is expanded access use of immunotherapy, these cases will not be included when calculating the average cost for new MS–DRG 018 to the extent such claims can be identified in the historical data (85 FR 58600).

In the FY 2021 IPPS/LTCH PPS final rule, we also finalized an adjustment to the payment amount for applicable clinical trial and expanded access immunotherapy cases that would group to MS–DRG 018 (85 FR 58842) using the same methodology that we used to adjust the case count for purposes of the relative weight calculations. Specifically, after consideration of public comments, we finalized our proposal to apply a payment adjustment to claims that group to new MS–DRG 18 and include ICD–10–CM diagnosis code Z00.6, with the modification that when the CAR T-cell therapy product is purchased in the usual manner, but the case involves a clinical trial of a different product, the payment adjustment will not be applied in calculating the payment for the case. We also finalized that when there is expanded access use of immunotherapy, the payment adjustment will be applied in calculating the payment for the case. We codified this payment adjustment at 42 CFR 412.85 (for operating IPPS payments) and 42 CFR 412.312 (for capital IPPS payments), for claims appropriately containing Z00.6, as described previously, including to reflect that the adjustment will also be applied for cases involving expanded access use immunotherapy, and that the payment adjustment only applies to applicable clinical trial cases; that is, the adjustment is not applicable to cases where the CAR T-cell therapy product is purchased in the usual manner, but the case involves a clinical trial of a different product. We also finalized our regulations at 42 CFR 412.85(c) to reflect that the adjustment factor will reflect the average cost for cases to be assigned to MS DRG 018 that involve expanded access use of immunotherapy or are part of an applicable clinical trial to the average cost for cases to be assigned to MS–DRG 018 that do not involve expanded access use of immunotherapy and are not part of a clinical trial. (85 FR 58844).

Using the same methodology from the FY 2021 IPPS/LTCH PPS final rule, we are proposing to apply an adjustment to the payment amount for clinical trial cases that would group to MS–DRG 018 (85 FR 58842), which is the same methodology we are proposing to use to adjust the case count for purposes of the relative weight calculations:

- Calculate the average cost for cases to be assigned to MS–DRG 018 that contain ICD–10–CM diagnosis code Z00.6 or contain standardized drug charges of less than $373,000.
- Calculate the average cost for cases to be assigned to MS–DRG 018 that do not contain ICD–10–CM diagnosis code Z00.6 or standardized drug charges of at least $373,000.
- Calculate an adjustor by dividing the average cost calculated in step 1 by the average cost calculated in step 2.
- Apply this adjustor when calculating payments for clinical trial cases that group to MS–DRG 018 by multiplying the relative weight for MS–DRG 018 by the adjustor.

Additionally, we are continuing our finalized methodology for calculating this payment adjustment, such that: (a) when the CAR T-cell therapy product is purchased in the usual manner, but the case involves a clinical trial of a different product, the claim will be included when calculating the average cost for cases determined to be clinical trial cases and (b) when there is expanded access use of immunotherapy, these cases will be included when calculating the average cost for cases determined to be clinical trial cases. However, we continue to believe to the best of our knowledge there are no claims in the historical data (FY 2019 MedPAR) used in the calculation of the adjustment for cases involving a clinical trial of a different product, and to the extent the historical data contain claims for cases involving expanded access use of immunotherapy we believe those claims would have drug charges less than $373,000.

Consistent with our calculation of the adjustor for the relative weight calculations, and our proposal to use the FY 2019 data for the FY 2022 ratessetting, we are proposing to continue to calculate this adjustor based on the March 2020 update of the FY 2019 MedPAR file for purposes of establishing the FY 2022 payment amount. Specifically, we are proposing to multiply the FY 2022 relative weight for MS–DRG 018 by an adjustor of 0.17 as part of the calculation of the payment for claims determined to be applicable clinical trial or expanded use access immunotherapy claims that group to MS–DRG 018, which under our proposal includes CAR T-cell and non-CAR T-cell therapies and other immunotherapies. We refer the reader to section II.D.2. for a further discussion of MS–DRG 018. As discussed in section I.F. of this proposed rule, we are also soliciting comments on an alternative approach of using the same FY 2020 data that we would ordinarily use for purposes of the FY 2022 rulemaking, which we may consider finalizing for FY 2022 based on consideration of comments received.

We note that using the methodology as finalized in the FY 2021 IPPS/LTCH PPS final rule, we calculated an adjustor of 0.25 based on this approach of using the FY 2020 MedPAR file.

**VI. Proposed Changes to the IPPS for Capital-Related Costs**

**A. Overview**

Section 1886(g) of the Act requires the Secretary to pay for the capital-related costs of inpatient acute hospital services in accordance with a prospective payment system established by the Secretary. Under the statute, the Secretary has broad authority in
establishing and implementing the IPPS for acute care hospital inpatient capital-related costs. We initially implemented the IPPS for capital-related costs in the FY 1992 IPPS final rule (56 FR 43358). In that final rule, we established a 10-year transition period to change the payment methodology for Medicare hospital inpatient capital-related costs from a reasonable cost-based payment methodology to a prospective payment methodology (based fully on the Federal rate).

FY 2001 was the last year of the 10-year transition period that was established to phase in the IPPS for hospital inpatient capital-related costs. For cost reporting periods beginning in FY 2002, capital IPPS payments are based solely on the Federal rate for almost all acute care hospitals (other than hospitals receiving certain exception payments and certain new hospitals). (We refer readers to the FY 2002 IPPS final rule (66 FR 39910 through 39914) for additional information on the methodology used to determine capital IPPS payments to hospitals both during and after the transition period.) The basic methodology for determining capital prospective payments using the Federal rate is set forth in the regulations at 42 CFR 412.312. For the purpose of calculating capital payments for each discharge, the standard Federal rate is adjusted as follows:

\[
\text{Standard Federal Rate} \times (\text{DRG Weight}) \times (\text{Geographic Adjustment Factor}) \times (\text{COLA for hospitals located in Alaska and Hawaii}) \times (1 + \text{Capital DSH Adjustment Factor} + \text{Capital IME Adjustment Factor}, if applicable).
\]

In addition, under §412.312(c), hospitals also may receive outlier payments under the capital IPPS for extraordinarily high-cost cases that qualify under the thresholds established for each fiscal year.

\section*{B. Additional Provisions}

1. Exception Payments

The regulations at 42 CFR 412.348 provide for certain exception payments under the capital IPPS. The regular exception payments provided under §412.348(b) through (e) were available only during the 10-year transition period. For a certain period after the transition period, eligible hospitals may have received additional payments under the special exceptions provisions at §412.348(g). However, FY 2012 was the final year hospitals could receive special exceptions payments. For additional details regarding these

exceptions policies, we refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51725).

Under §412.348(f), a hospital may request an additional payment if the hospital incurs unanticipated capital expenditures in excess of $5 million due to extraordinary circumstances beyond the hospital's control. Additional information on the exception payment for extraordinary circumstances in §412.348(f) can be found in the FY 2005 IPPS final rule (69 FR 49185 and 49186).

2. New Hospitals

Under the capital IPPS, the regulations at 42 CFR 412.300(b) define a new hospital as a hospital that has operated (under previous or current ownership) for less than 2 years and lists examples of hospitals that are not considered new hospitals. In accordance with §412.304(c)(2), under the capital IPPS, a new hospital is paid 85 percent of its allowable Medicare inpatient hospital capital-related costs through its first 2 years of operation, unless the new hospital elects to receive full prospective payment based on 100 percent of the Federal rate. We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51725) for additional information on payments to new hospitals under the capital IPPS.

3. Payments for Hospitals Located in Puerto Rico

In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57061), we revised the regulations at 42 CFR 412.374 relating to the calculation of capital IPPS payments to hospitals located in Puerto Rico beginning in FY 2017 to parallel the change in the statutory calculation of operating IPPS payments to hospitals located in Puerto Rico, for discharges occurring on or after January 1, 2016, made by section 601 of the Consolidated Appropriations Act, 2016 (Pub. L. 114–113). Section 601 of Public Law 114–113 increased the applicable Federal percentage of the operating IPPS payment for hospitals located in Puerto Rico from 75 percent to 100 percent and decreased the applicable Puerto Rico percentage of the operating IPPS payments for hospitals located in Puerto Rico from 25 percent to zero percent, applicable to discharges occurring on or after January 1, 2016. As such, under revised §412.374, for discharges occurring on or after October 1, 2016, capital IPPS payments to hospitals located in Puerto Rico are based on 100 percent of the capital Federal rate.

\section*{C. Proposed Annual Update for FY 2022

The proposed annual update to the national capital Federal rate, as provided for in 42 CFR 412.308(c), for FY 2022 is discussed in section III. of the Addendum to this FY 2022 IPPS/LTCH PPS proposed rule.

In section II.C. of the preamble of this FY 2022 IPPS/LTCH PPS proposed rule, we present a discussion of the MS–DRG documentation and coding adjustment, including previously finalized policies and historical adjustments, as well as the adjustment to the standardized amount under section 1886(d) of the Act that we are proposing for FY 2022. In accordance with the amendments made to section 7(b)(1)(B) of Public Law 110–90 by section 414 of the MACRA.

Because these provisions require us to make an adjustment only to the operating IPPS standardized amount, we are not proposing to make a similar adjustment to the national capital Federal rate (or to the hospital-specific rates).

We also note that in section IV.G. of the preamble of this proposed rule, we discuss our proposed adjustment to the payment amount for certain clinical trial or expanded access use immunotherapy cases that will group to MS–DRG 018 for both operating IPPS payments and capital IPPS payments. We refer readers to section IV.G. of this preamble for additional details on the proposed payment adjustment for these cases.

\section*{VII. Proposed Changes for Hospitals Excluded From the IPPS

A. Proposed Rate-of-Increase in Payments to Excluded Hospitals for FY 2022

Certain hospitals excluded from a prospective payment system, including children’s hospitals, 11 cancer hospitals, and hospitals located outside the 50 States, the District of Columbia, and Puerto Rico (that is, hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa) receive payment for inpatient hospital services they furnish on the basis of reasonable costs, subject to a rate-of-increase ceiling. A per discharge limit (the target amount, as defined in §413.40(a) of the regulations) is set for each hospital based on the hospital’s own cost experience in its base year, and updated annually by a rate-of-increase percentage. For each cost reporting period, the updated target amount is multiplied by total Medicare discharges during that period and applied as an aggregate upper limit (the ceiling as defined in §413.40(a)) of Medicare reimbursement for total inpatient operating costs for a hospital’s cost reporting period. In accordance with §403.752(a) of the regulations, religious
nonmedical health care institutions (RNHCIs) also are subject to the rate-of-increase limits established under § 413.40 of the regulations discussed previously. Furthermore, in accordance with § 412.526(c)(3) of the regulations, extended neoplastic disease care hospitals also are subject to the rate-of-increase limits established under § 413.40 of the regulations discussed previously.

As explained in the FY 2006 IPPS final rule (70 FR 47396 through 47398), beginning with FY 2006, we have used the percentage increase in the IPPS operating market basket to update the target amounts for children’s hospitals, the 11 cancer hospitals, and RNHCIs. Consistent with the regulations at §§ 412.23(g) and 413.40(a)(2)(ii)(A) and (c)(3)(viii), we also have used the percentage increase in the IPPS operating market basket to update target amounts for short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa. In the FY 2018 IPPS/LTCH PPS final rule, we rebased and revised the IPPS operating basket to a 2014 base year, effective for FY 2018 and subsequent fiscal years (82 FR 38158 through 38175), and finalized the use of the percentage increase in the 2014-based IPPS operating market basket to update the target amounts for children’s hospitals, the 11 cancer hospitals, RNHCIs, and short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa for FY 2018 and fiscal years. As discussed in section IV. of the preamble of this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to rebase and revise the IPPS operating basket to a 2018 base year. Therefore, we are proposing to use the percentage increase in the 2018-based IPPS operating market basket to update the target amounts for children’s hospitals, the 11 cancer hospitals, RNHCIs, and short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa for FY 2022 and subsequent fiscal years. Accordingly, for FY 2022, the rate-of-increase percentage to be applied to the target amount for these hospitals would be the FY 2022 percentage increase in the proposed 2018-based IPPS operating market basket.

For this FY 2022 IPPS/LTCH PPS proposed rule, based on IGI’s 2020 fourth quarter forecast, we estimate that the proposed 2018-based IPPS operating market basket update for FY 2022 would be 2.5 percent (that is, the estimate of the market basket rate-of-increase).

Based on this estimate, the FY 2022 rate-of-increase percentage that would be applied to the FY 2021 target amounts in order to calculate the FY 2022 target amounts for children’s hospitals, the 11 cancer hospitals, RNHCIs, and short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa would be 2.5 percent, in accordance with the applicable regulations at 42 CFR 413.40. However, we are proposing that if more recent data become available for the FY 2022 IPPS/LTCH PPS final rule, we would use such data, if appropriate, to calculate the final IPPS operating market basket update for FY 2022.

In addition, payment for inpatient operating costs for hospitals classified under section 1886(d)(1)(B)(vi) of the Act (which we refer to as “extended neoplastic disease care hospitals”) for cost reporting periods beginning on or after January 1, 2015, is to be made as described in 42 CFR 412.526(c)(3), and payment for capital costs for these hospitals is to be made as described in 42 CFR 412.526(c)(4). (For additional information on these payment regulations, we refer readers to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38321 through 38323.) Section 412.526(c)(3) provides that the hospital’s Medicare allowable net inpatient operating costs for that period are paid on a reasonable cost basis, subject to that hospital’s ceiling, as determined under § 412.526(c)(1), for that period. Under § 412.526(c)(1), for cost reporting periods beginning during FY 2015, the ceiling was determined by multiplying the updated target amount, as defined in § 412.526(c)(2), for that period by the number of Medicare discharges paid during that period. Section 412.526(c)(2)(i) describes the method for determining the target amount for cost reporting periods beginning during FY 2015. Section 412.526(c)(2)(ii) specifies that, for cost reporting periods beginning during fiscal years after FY 2015, the target amount will equal the hospital’s target amount for the previous cost reporting period updated by the applicable annual rate-of-increase percentage specified in § 413.40(c)(3) for the subject cost reporting period (79 FR 50197).

For FY 2022, in accordance with §§ 412.22(i) and 412.526(c)(2)(ii) of the regulations, for cost reporting periods beginning during FY 2022, the proposed update to the target amount for extended neoplastic disease care hospitals (that is, hospitals described under § 412.22(i)) is the applicable annual rate-of-increase percentage specified in § 413.40(c)(3) for FY 2022, which would be equal to the percentage increase in the hospital market basket, which is estimated to be the percentage increase in the proposed 2018-based IPPS operating market basket (that is, the estimate of the market basket rate-of-increase). Accordingly, the proposed update to an extended neoplastic disease care hospital’s target amount for FY 2022 is 2.5 percent, which is based on IGI’s 2020 fourth quarter forecast. Furthermore, we are proposing that if more recent data become available for the FY 2022 IPPS/LTCH PPS final rule, we would use such data, if appropriate, to calculate the IPPS operating market basket update for FY 2022.

B. Critical Access Hospitals (CAHs)

1. Background

Section 1820 of the Act provides for the establishment of Medicare Rural Hospital Flexibility Programs (MRHFPs), under which individual States may designate certain facilities as critical access hospitals (CAHs). Facilities that are so designated and meet the CAH conditions of participation under 42 CFR part 485, subpart F, will be certified as CAHs by CMS. Regulations governing payments to CAHs for services to Medicare beneficiaries are located in 42 CFR part 413.

2. Frontier Community Health Integration Project (FCHIP) Demonstration

a. Background and Overview

As discussed in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58894 through 58896), section 123 of the Medicare Improvements for Patients and Providers Act of 2008 (Pub. L. 110–275), as amended by section 3126 of the Affordable Care Act, authorized a demonstration project to allow eligible entities to develop and test new models for the delivery of health care services in eligible counties in order to improve access to and better integrate the delivery of acute care, extended care and other health care services to Medicare beneficiaries. The demonstration was titled “Demonstration Project on Community Health Integration Models in Certain Rural Counties,” and commonly known as the Frontier Community Health Integration Project (FCHIP) demonstration.

The authorizing statute stated the eligibility criteria for entities to be able to participate in the demonstration. An eligible entity, as defined in section 1127(b)(1)(F) of Public Law 110–275, as amended, is a Medicare Rural Hospital Flexibility Program (MRHFP) grante
under section 1820(g) of the Act (that is, a CAH) and is located in a State in which at least 65 percent of the counties in the State are counties that have 6 or less residents per square mile.

The authorizing statute stipulated several other requirements for the demonstration. Section 123(d)(2)(B) of Public Law 110–275, as amended, limited participation in the demonstration to eligible entities in not more than 4 States. Section 123(f)(1) of Public Law 110–275 required the demonstration project to be conducted for a 3-year period. In addition, section 123(g)(1)(B) of Public Law 110–275 required that the demonstration be budget neutral. Specifically, this provision stated that, in conducting the demonstration project, the Secretary shall ensure that the aggregate payments made by the Secretary do not exceed the amount which the Secretary estimates would have been paid if the demonstration project under the section were not implemented. Furthermore, section 123(i) of Public Law 110–275 stated that the Secretary may waive such requirements of titles XVIII and XIX of the Act as may be necessary and appropriate for the purpose of carrying out the demonstration project, thus allowing the waiver of Medicare payment rules encompassed in the demonstration.

In January 2014, we released a request for applications (RFA) for the FCHIP Demonstration. Using 2013 data from the U.S. Census Bureau, CMS identified Alaska, Montana, Nevada, North Dakota, and Wyoming as states meeting the statutory eligibility requirement for participation in the demonstration. The RFA solicited CAHs in these five States to participate in the demonstration, stating that participation would be limited to CAHs in four of the States. To apply, CAHs were required to meet the eligibility requirements in the authorizing legislation, and to describe a proposal to enhance health-related services that would complement those currently provided by the CAH and better serve the community’s needs. In addition, in the RFA, CMS interpreted the eligible entity definition in the statute as meaning a CAH that receives funding through the MHRFP. The RFA identified four interventions, under which specific waivers of Medicare payment rules would allow for enhanced payment for telehealth, skilled nursing facility/nursing facility beds, ambulance services, and home health services. These waivers were formulated with the goal of increasing access to care with no net increase in costs.

Ten CAHs were selected for participation in the demonstration, which started on August 1, 2016, and concluded on July 31, 2019 (referred to in this section as the “initial period”). The selected CAHs were located in Montana, Nevada, and North Dakota, and participated in three of the four interventions identified in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57064 through 57065), the FY 2018 IPPS/LTCH PPS final rule (82 FR 38294 through 38296), and the FY 2019 IPPS/LTCH PPS final rule (83 FR 41516 through 41517), the FY 2020 IPPS/LTCH PPS final rule (84 FR 42427 through 42428) and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58894 through 58896). Eight CAHs participated in the telehealth intervention, three CAHs participated in the skilled nursing facility/nursing facility bed intervention, and two CAHs participated in the ambulance services intervention. Each CAH was allowed to participate in more than one of the interventions. None of the selected CAHs were participants in the home health intervention, which was the fourth intervention included in the RFA.

b. Intervention Payment and Payment Waivers

CMS waived certain Medicare rules for CAHs participating in the demonstration to allow for alternative reasonable cost-based payment methods in the three distinct intervention service areas: Telehealth services, ambulance services, and skilled nursing facility/ nursing facility (SNF/NF) beds expansion. The payments and payment waiver provisions only applied if the CAH participated in the associated intervention. The FCHIP payment waivers consisted of the following:

(1) Telehealth Services Intervention Payments

CMS waived section 1834(m)(2)(B) of the Social Security Act (the Act), which specifies the facility fee for the originating site (that is, the participating CAH where the eligible telehealth individual is located). CMS modified the facility fee payment specified under section 1834(m)(2)(B) of the Act to allow for reasonable cost-based reimbursement to the participating CAH. CMS reimbursed the participating CAH serving as the originating site at 101 percent of its reasonable costs for overhead, salaries, fringe benefits, and the depreciation value of the telehealth equipment at the participating CAH. The Demonstration waived the requirement to fund or provide reimbursement for the participating CAHs to purchase new telehealth equipment. However, if a participating CAH purchases new equipment, CMS would continue to reimburse depreciation costs for that equipment. The payments to the distant site physician or practitioner were made as usual under the Medicare physician fee schedule. CMS did not waive any other provisions of section 1834(m) of the Act, including the scope of Medicare telehealth services as established under section 1834(m)(4)(F) of the Act.

(2) Ambulance Services Intervention Payments

CMS waived 42 CFR 413.70(b)(5)(C), which provides that payment for ambulance services furnished by a CAH, or an entity owned and operated by a CAH, is 101 percent of the reasonable costs of the CAH or the entity in furnishing the ambulance services if the CAH or entity is the only provider or supplier of ambulance services located within a 35-mile drive of the CAH. Under the demonstration, a participating CAH was paid 101 percent of reasonable costs for its ambulance services regardless of whether there was any other provider or supplier of ambulance services located within a 35-mile drive of the participating CAH or CAH-owned and operated entity. Cost-based payment was not allowed for any new capital expenditures (for example, vehicles) associated with ambulance services. This waiver did not modify any other Medicare rules affecting the provision of ambulance services.

(3) SNF/NF Beds Expansion Intervention Payments

CMS waived 42 CFR 485.620(a) and 42 CFR 485.645(a)(2), which limit CAHs to maintaining no more than 25 inpatient beds, including beds available for acute inpatient or swing bed services. Through this waiver, CAHs participating in the SNF/NF intervention were allowed to keep up to 10 additional beds (for a total of up to 35 beds) available for acute inpatient or swing bed services; however, the participating CAHs were only to use these additional beds for nursing facility or skilled nursing facility level of care. SNF/NF services furnished in the additional beds were reimbursed according to the standard Medicare reimbursement principles for CAHs. Additional capital expenditures were not allowed under this waiver. No changes to the methodology for calculating Medicare payments for swing bed services at participating CAHs were allowed. The Conditions of Participation (CoPs) for certified critical access hospitals providing (SNF/NF) long term care services are at 42 CFR 485.645. Certification to participate in Medicare’s swing bed program is a
separate approval by CMS from the certification to operate as a CAH provider of services. The participating CAHs within the SNF/NF Beds Expansion intervention were required to receive approval from and be certified by CMS to participate in the Demonstration swing bed program.

c. Budget Neutrality Requirement

In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57064 through 57065), we finalized a policy to address the budget neutrality requirement for the demonstration. We also discussed this policy in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38294 through 38296), the FY 2019 IPPS/LTCH PPS final rule (83 FR 41516 through 41517), the FY 2020 IPPS/LTCH PPS final rule (84 FR 42427 through 42428) and the FY 2021 IPPS/LTCH PPS final rule (85 FR 5899 through 58996), but did not make any changes to the policy that was adopted in FY 2017. As explained in the FY 2017 IPPS/LTCH PPS final rule, we based our CAHs for participation in the demonstration with the goal of maintaining the budget neutrality of the demonstration on its own terms meaning that the demonstration would produce savings from reduced transfers and admissions to other health care providers, offsetting any increase in Medicare payments as a result of the demonstration. However, because of the small size of the demonstration and uncertainty associated with the projected Medicare utilization and costs, the policy we adopted in the FY 2017 IPPS/LTCH PPS final rule provides a contingency plan to ensure that the budget neutrality requirement in section 123 of Public Law 110–275 is met. If analysis of claims data for Medicare beneficiaries receiving services at each of the participating CAHs, as well as from other data sources, including cost reports for the participating CAHs, shows that increases in Medicare payments under the demonstration during the 3-year period are not sufficiently offset by reductions elsewhere, we will recoup the additional expenditures attributable to the demonstration through a reduction in payments to all CAHs nationwide. Because of the small scale of the demonstration, we indicated that we did not believe it would be feasible to implement budget neutrality by reducing payments to only the participating CAHs. Therefore, in the event that this demonstration is found to result in aggregate payments in excess of those that would have been paid if this demonstration were not implemented, we stated that we would comply with the budget neutrality requirement by reducing payments to all CAHs, not just those participating in the demonstration. We stated that we believe it is appropriate to make any payment reductions across all CAHs because the FCHIP Demonstration was specifically designed to test innovations that affect delivery of services by the CAH provider category. We explained our belief that the language of the statutory budget neutrality requirement at section 123(g)(1)(B) of Public Law 110–275 permits the agency to implement the budget neutrality provision in this manner. The statutory language merely refers to ensuring that aggregate payments made by the Secretary do not exceed the amount which the Secretary estimates would have been paid if the demonstration project was not implemented, and does not identify the range across which aggregate payments must be held equal.

Based on actuarial analysis using cost report settlements for FYs 2013 and 2014, the FCHIP Demonstration was projected to satisfy the budget neutrality requirement and likely yield a total net savings. In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57064 through 57065) final rule, we estimated that the total impact of the payment recoupment (if needed) would be no greater than 0.03 percent of CAHs’ total Medicare payments (that is, Medicare Part A and Part B) within 1 fiscal year. We also explained that the final budget neutrality estimates for the FCHIP Demonstration would be based on costs incurred during the initial period of the demonstration from August 1, 2016, through July 31, 2019.

d. FCHIP Budget Neutrality Methodology and Analytical Approach

As explained in the FY 2021 IPPS/LTCH PPS final rule, our goal was to maintain the budget neutrality of the demonstration on its own terms (that is, the demonstration would produce savings from reduced transfers and admissions to other health care providers, thus offsetting any increase in payments to the participating CAHs resulting from the demonstration). The analysis of budget neutrality identified both the costs related to providing the intervention services under the FCHIP Demonstration and any potential downstream effects of the intervention-related services, including any savings that may have accrued.

The budget neutrality analytical approach incorporated two major data components: (1) Medicare cost reports; and (2) Medicare administrative claims. As explained in the FY 2021 IPPS/LTCH PPS final rule (85 48432 through 59107), we computed the cost of the demonstration for each fiscal year of the demonstration period using Medicare cost reports for the participating CAHs, and Medicare administrative claims and enrollment data for beneficiaries who received demonstration intervention services.

The budget neutrality assessment sought to determine if the goal to maintain budget neutrality of the demonstration on its own terms was met. We examined the difference in expenditures for groups of beneficiaries who received intervention services at demonstration CAHs or at comparison CAHs that were not participating in the demonstration. The demonstration and comparison groups were composed of Medicare beneficiaries receiving an intervention service (that is, telehealth, SNF/NF or ambulance) at participating CAHs and non-participating CAHs, respectively. To ensure that there was no cross contamination between the two groups, the demonstration and comparison groups were mutually exclusive of each other, and beneficiaries who received intervention services at both participating and non-participating CAHs were included within the demonstration group only.

Medicare reimbursement for the demonstration intervention services depended on the service provided. For the swing bed services, the demonstration CAH swing bed reimbursement was based on 101 percent of the reasonable cost of the SNF services furnished in the swing beds (as computed in the Medicare cost report). The CAHs were paid on an interim basis using a per diem rate for routine and ancillary costs. For the demonstration ambulance and telehealth services, CAH reimbursement was based on 101 percent of the reasonable cost of the Medicare costs for the services to Medicare patients (as computed in the Medicare cost report). The CAHs were paid on an interim basis using a percentage of Medicare charges. The applicable percentage of Medicare charges was calculated by dividing the overall allowable Medicare charges by the overall Medicare charges in order to determine the Medicare cost-to-charge ratio.

The three intervention services were different, and each demonstration CAH had the option to implement one, two or all three interventions. Therefore, budget neutrality was analyzed for each demonstration intervention service separately. The basic approach to the demonstration was similar for each intervention service, but some additional variables were incorporated...
based on the nature of the intervention and its expected impact. The findings for each intervention service were then combined at the end of the process to reach a single conclusion regarding budget neutrality for the initial period of the demonstration as a whole.

f. Data Elements

Beginning with the cost report data, CMS conducted Medicare cost report audit reviews for the 10 participating CAHs over the course of the three-year demonstration period. The cost reports are a collection of worksheets that calculate the costs of a specific provider for supplying health care services to Medicare beneficiaries and when aggregated these cost reports furnish information used by researchers, actuaries and policy makers. All CAHs participating in the Medicare program are required to submit cost reports annually, with the reporting period based on the provider’s accounting year. It should be noted the FCHIP Cost Report audit calculated budget neutrality as determined only by the change in the cost of providing services to Medicare beneficiaries through the Medicare cost report and excluded other factors that may also influence aggregate cost to the Medicare program, such as a shifting of essential services to CAHs from more expensive tertiary hospitals or other downstream cost impacts.

The intervention services authorized under the demonstration may impact cost in several ways that can act to either increase or decrease expenditures. For example, the transition from a facility fee payment to the originating site to cost-based reimbursement under the telehealth services intervention would likely result in increased costs for those services. However, the Medicare administrative claims analysis anticipated and measured that telehealth intervention services furnished by CAHs in the demonstration group exceeded the expected expenditures absent the demonstration. The projection of expected expenditures absent the demonstration included an additional adjustment to reflect the statistical uncertainty of the predictions. If actual expenditures for the intervention services furnished by CAHs in the demonstration group exceeded the expected expenditures absent the demonstration (with the adjustment for statistical uncertainty), then budget neutrality could potentially be violated. CMS conducted a series of analytical steps as previously described to determine the budget neutrality outcome for the initial period of the demonstration.

g. Methodology for Estimating Demonstration Costs

Step 1: The Medicare cost reports for CAHs participating in the FCHIP Demonstration were reviewed to verify reasonableness of reported expenses, revenues and statistics and to ensure the reported demonstration expenses were allowable and accurately allocated on the cost report. CMS performed a reasonableness analysis of the cost reports for each of the demonstration CAHs that focused on cost incurred by the CAH to determine whether the costs were necessary and proper for patient care under the demonstration. CMS also performed an allowability analysis for each demonstration CAH to determine which costs were directly related to the demonstration and to ensure all reported costs related to the intervention services were accounted for. In addition, each demonstration CAH’s cost reports were audited to ensure the reported expenses were allowable and accurately allocated to each intervention service considering established Medicare regulations as modified by demonstration requirements. Demonstration costs that were unrelated to patient care were deemed not allowable. The cost report audit analysis included removal of any cost claimed by demonstration CAHs that was not specifically described in ‘(b) Intervention Payment and Payment Waivers’, which describes the Medicare rules and payments methods that were actually made under the demonstration for each of the three interventions.

For each of the 10 demonstration CAHs, we identified the reasonable cost amount calculated under the reasonable cost-based methodology for the demonstration covered inpatient hospital services and covered outpatient hospital services, including swing bed, telehealth, and ambulance services as indicated on the “as submitted” cost report for each hospital cost reporting period covering the initial period of performance from August 1, 2016, through July 31, 2019. For each of the demonstration CAHs, these “as submitted” cost reports are those with cost report period end dates in Calendar Year (CY) 2016, 2017, 2018, 2019 and 2020. We note that among the demonstration CAHs with “as submitted” cost reports in CY 2020, the cost reporting period covered January 1, 2019, to December 31, 2019; March 1, 2019, to April 30, 2020; or July 1, 2019, to June 30, 2020.

Step 2: CMS utilized Hospital 2552–10 Cost Report Data files to calculate the change in Medicare reimbursement for the initial period of performance. CMS calculated Medicare reimbursement costs under the demonstration versus Medicare reimbursement costs without the demonstration. “Medicare reimbursement costs without the demonstration” were defined as Medicare costs as determined using the Medicare payment methodologies that would have applied absent the demonstration and represented the baseline costs for each intervention service. “Medicare reimbursement costs under the demonstration” were defined as the costs as determined through the audited cost report after the application of the demonstration payment waiver methodologies. The difference between these costs represented the cost impact of the demonstration.

For each of the participating CAHs, we identified the estimated amount that would otherwise be paid under applicable Medicare payment methodologies for covered intervention services (as indicated on the same set of “as submitted” cost reports as in Step 1), if the demonstration were not implemented. (Also, as indicated on the same set of “as submitted” cost reports as in Step 1), we identified the estimated amount that was paid for...
covered intervention services under the demonstration. To compute the aggregate change in cost due to the demonstration, we calculated the difference in the costs of intervention services between “Medicare reimbursement costs without the demonstration” versus “Medicare reimbursement costs under the demonstration” from the cost reports.

Step 3: For each of the 10 CAHs, Medicare administrative claims and enrollment data for beneficiaries receiving demonstration intervention services were identified. The data were collected at the individual beneficiary level and included information on service type, service date, and reasonable cost payment amount calculated under the reasonable cost-based methodology for covered intervention services furnished under the demonstration. Codes indicating diagnosis and the specific procedure provided under the demonstration were also identified using the claims and enrollment data and were used in the analysis.

Step 4: CMS defined “episodes of care” for the eligible CAHs. For each of the participating CAHs, using Medicare administrative claims, we identified costs related to providing demonstration intervention services. The demonstration CAHs submitted Medicare claims for the demonstration intervention services. These claims were consolidated by the Medicare Administrative Contractor (MAC) into interim payments, which were incorporated into an episode of care framework for purposes of the budget neutrality calculation. CMS defined an episode of care as all Medicare Parts A and B services furnished to a beneficiary receiving a demonstration intervention service during a specified period of time ranging from 30 to 60 days following the receipt of a demonstration intervention service. The specific timeframes for the episodes of care were chosen for each intervention based on observed expenditure patterns following an episode-triggering intervention service.

Episode costs were defined as the cost of all Medicare Parts A and B services provided to the beneficiary during the episode. Next, CMS incorporated the claims and interim payment data into the episode of care framework.

Step 5: CMS constructed Episode of Care Comparison groups and potential savings variables. We separated the episode of care Medicare Parts A and B expenditures into two groups—expenditures for beneficiaries receiving intervention services from demonstration group CAHs and expenditures for beneficiaries receiving intervention services from non-demonstration (comparison) group CAHs within the FCHIP eligible States (Montana, Nevada, and North Dakota). Then we compared episode of care expenditures for beneficiaries receiving intervention services from demonstration group CAHs to those for beneficiaries receiving intervention services from comparison group CAHs.

Step 6: CMS conducted the Difference-in-Difference Analysis. Using the episode of care framework described in Step 4, the demonstration and comparison groups were used to measure the impact of the intervention services on episode expenditures through a DID analysis comparing baseline and performance period(?) costs for the demonstration groups and comparison groups. The DID regression model was estimated using episode expenditures as the dependent variable. (The model’s functional form was a generalized linear model with a log link and gamma distribution. This type of model is commonly used in analyzing health care expenditures and yields only positive predicted values.) All analyses were carried out separately for the three intervention services. Using the episode of care approach enabled us to identify downstream effects of the intervention services, including any savings that may have accrued. For each of the participating CAHs we identified cost-savings or reductions in transfers and admissions to other health care providers, offsetting any increase in Medicare payments that may have resulted from the use of intervention services. Results were combined across the ten CAH participants and across the three interventions to produce a summary conclusion regarding budget neutrality for the 36-month initial demonstration performance period.

Step 7: Lastly, CMS performed a supplementary sensitivity analysis adjustment for statistical uncertainty. The DID analysis results obtained using the Medicare administrative claims data were then reconciled using data obtained from auditing the participating CAHs’ Medicare cost reports. The Medicare cost reports provide another source of data related to demonstration expenditures beyond the information that is directly reported via Medicare administrative claims. The Medicare cost report audit findings were used to reconcile the directionality and outcome of the DID regression analysis results. The sensitivity analysis was calculated for the demonstration as a whole to ensure the policy conclusion via the DID analysis was not the result of random variation or statistical uncertainty of the predictions used in the analysis.

g. Budget Neutrality Conclusion

Based on analysis of the Medicare administrative claims data and the Medicare cost report audit data from the 36 months of the initial demonstration performance period, there were no statistically significant findings that the FCHIP Demonstration resulted in additional expenditures. The DID analysis results were based on an episode of care point estimate threshold. If the actual episode expenditures of the demonstration exceeded the expected expenditures absent the demonstration (with the sensitivity analysis adjustment for statistical uncertainty) then the requirement for budget neutrality under section 123(g)(1)(B) of Public Law 110–275 could potentially be violated. CMS found in aggregate that the demonstration CAHs’ episode of care expenditures during the initial period of the demonstration were lower than expenditures would have been absent the demonstration. In fact, when the sensitivity analysis (using a 95 percent confidence interval) was calculated it showed that total expenditures for the 10 participating CAHs in the demonstration would need to cumulatively increase cost by more than 18 percent (which translated to $3,120 per episode, or a total of $3,529,039 for the three interventions combined) to exceed expenditures absent the demonstration. When we compared the total cost of Medicare episodes of care under the demonstration with the aggregate demonstration cost findings based on the audit of Medicare cost reports, we also found that the aggregate demonstration intervention services cost on the “as submitted” Medicare cost reports fell within the point estimate threshold—therefore, the FCHIP Demonstration did not result in additional expenditures during the initial period of the demonstration.

Under the policy finalized in the FY 2017 IPPS/LTCH PPS final rule, in the event the demonstration is found not to have been budget neutral, any excess costs will be recouped over a period of 3 cost reporting years, beginning in CY 2020. In the FY 2021 IPPS/LTCH PPS final rule (85 FR 58895), we stated that based on the currently available data, the determination of budget neutrality results was preliminary and the amount of any reduction to CAH payments that would be needed in order to recoup excess costs under the demonstration remained uncertain. Therefore, CMS revised the policy originally adopted in the FY 2017 IPPS/LTCH PPS final rule, to delay the implementation of any
budget neutrality adjustment and stated that we would revisit this policy in rulemaking for FY 2022, when we expected to have complete data for the demonstration period. Based on the data and actuarial analysis described previously, we have concluded that the initial period of the FCHIP Demonstration (covering the performance period August 1, 2016, to July 31, 2019) has satisfied the budget neutrality requirement described in section 123(g)(1)(B) of Public Law 110–275. Therefore, we are not proposing to apply a budget neutrality payment offset to payments to CAHs in FY 2022. This policy will have no impact for any national payment system for FY 2022.


As stated earlier, section 123 of the Medicare Improvements for Patients and Providers Act of 2008 (Pub. L. 110–275), as amended by section 3126 of the Affordable Care Act, authorized the Secretary to conduct the Frontier Community Health Integration Project (FCHIP) demonstration for a 3-year period. Section 129 of the Consolidated Appropriations Act (Pub. L. 116–159) extends the FCHIP Demonstration by 5 years. Specifically, the Consolidated Appropriations Act amended subsection (f) of section 123 of the Medicare Improvements for Patients and Providers Act of 2008 (42 U.S.C. 1395i–4 note) in paragraph (1), by striking “3-year period beginning on October 1, 2009” and inserting “3-year period beginning on August 1, 2016 (referred to in this section as the “initial period”), and 5-year period beginning on July 1, 2021 (referred to in this section as the “extension period”).” Thus, the FCHIP Demonstration will resume on July 1, 2021 and CAHs participating in the demonstration project during the extension period shall begin such participation in the cost reporting year that begins on or after July 1.

The Secretary is required to conduct the demonstration for an additional 5-year period. Only the 10 CAHs that participated in the initial period of the FCHIP Demonstration are eligible to participate during the extension period. While we expect to use the same methodology that was used to assess the budget neutrality of the FCHIP Demonstration during initial period of the demonstration to assess the financial impact of the demonstration during this extension period, based on the data available, upon receiving data for the extension period, we may update and/or modify the FCHIP budget neutrality methodology and analytical approach to ensure that the full impact of the demonstration is appropriately captured. We will determine the budget neutrality approach for the FCHIP Demonstration extension period once data is available for the extension period.

VIII. Proposed Changes to the Long-Term Care Hospital Prospective Payment System (LTCH PPS) for FY 2022

A. Background of the LTCH PPS

1. Legislative and Regulatory Authority

Section 123 of the Medicare, Medicaid, and SCHIP (State Children’s Health Insurance Program) Balanced Budget Refinement Act of 1999 (BBRA) (Pub. L. 106–113), as amended by section 307(b) of the Medicare, Medicaid, and SCHIP Benefits Improvement and Protection Act of 2000 (BIPA) (Pub. L. 106–554), provides for payment for both the operating and capital-related costs of hospital inpatient stays in long-term care hospitals (LTCHs) under Medicare Part A based on prospectively set rates. The Medicare prospective payment system (PPS) for LTCHs applies to hospitals that are described in section 1886(d)(1)(B)(iv) of the Act, effective for cost reporting periods beginning on or after October 1, 2002.

Section 1886(d)(1)(B)(iv)(I) of the Act originally defined an LTCH as a hospital that has an average inpatient length of stay (as determined by the Secretary) of greater than 25 days. Section 1886(d)(1)(B)(iv)(II) of the Act also provided an alternative definition of LTCHs (“subclause II” LTCHs). However, section 15008 of the 21st Century Cures Act (Pub. L. 114–255) amended section 1886 of the Act to exclude former “subclause II” LTCHs from being paid under the LTCH PPS and created a new category of IPPS-excluded hospitals, which we refer to as “extended neoplastic disease care hospitals,” to be paid as hospitals that were formally classified as “subclause (II)” LTCHs (82 FR 38298).

Section 123 of the BBRA requires the PPS for LTCHs to be a “per discharge” system with a diagnosis-related group (DRG) based patient classification system that reflects the differences in patient resource use and costs in LTCHs.

Section 307(b)(1) of the BIPA, among other things, mandates that the Secretary shall examine, and may provide for, adjustments to payments under the LTCH PPS including adjustments to DRG weights, area wage adjustments, geographic reclassification, outliers, updates, and a disproportionate share adjustment.

In the August 30, 2002 Federal Register, we issued a final rule that implemented the LTCH PPS authorized under the BBRA and BIPA (67 FR 55954). For the initial implementation of the LTCH PPS (FYs 2003 through FY 2007), the system used information from LTCH patient records to classify patients into distinct long-term care-diagnosis-related groups (LTCDRGs) based on clinical characteristics and expected resource needs. Beginning in FY 2008, we adopted the Medicare severity-long-term care-diagnosis related groups (MS–LTCDRGs) as the patient classification system used under the LTCH PPS. Payments are calculated for each MS–LTCDRG and provisions are made for appropriate payment adjustments. Payment rates under the LTCH PPS are updated annually and published in the Federal Register.

The LTCH PPS replaced the reasonable cost-based payment system under the Tax Equity and Fiscal Responsibility Act of 1982 (TEFRA) (Pub. L. 97–248) for payments for inpatient services provided by an LTCH with a cost reporting period beginning on or after October 1, 2002. (The regulations implementing the TEFRA reasonable-cost-based payment provisions are located at 42 CFR part 413.) With the implementation of the PPS for acute care hospitals authorized by the Social Security Amendments of 1983 (Pub. L. 98–21), which added section 1886(d) to the Act, certain hospitals, including LTCHs, were excluded from the PPS for acute care hospitals and paid their reasonable costs for inpatient services subject to a per discharge limitation or target amount under the TEFRA system. For each cost reporting period, a hospital specific ceiling on payments was determined by multiplying the hospital’s updated target amount by the number of total current year Medicare discharges. (Generally, in this section of the preamble of this proposed rule, when we refer to discharges, we describe Medicare discharges.)

The August 30, 2002 final rule further details the payment policy under the TEFRA system (67 FR 55954).

In the August 30, 2002 final rule, we provided for a 5-year transition period from payments under the TEFRA system to payments under the LTCH PPS. During this 5-year transition period, an LTCH’s total payment under the PPS was based on an increasing percentage of the Federal rate with a corresponding decrease in the payment of the LTCH PPS payment that is based on reasonable cost concepts, unless an
LTCH made a one-time election to be paid based on 100 percent of the Federal rate. Beginning with LTCHs’ cost reporting periods beginning on or after October 1, 2006, total LTCH PPS payments are based on 100 percent of the Federal rate. In addition, in the August 30, 2002 final rule, we presented an in-depth discussion of the LTCH PPS, including the patient classification system, relative weights, payment rates, additional payments, and the budget neutrality requirements mandated by section 123 of the BBRA. The same final rule that established regulations for the LTCH PPS under 42 CFR part 412, subpart O, also contained LTCH provisions related to covered inpatient services, limitation on charges to beneficiaries, medical review requirements, furnishing of inpatient hospital services directly or under arrangement, and reporting and recordkeeping requirements. We refer readers to the August 30, 2002 final rule for a comprehensive discussion of the research and data that supported the establishment of the LTCH PPS (67 FR 55954).

In the FY 2016 IPPS/LTCH PPS final rule (80 FR 49601 through 49623), we implemented the provisions of the Pathway for Sustainable Growth Rate (SGR) Reform Act of 2013 (Pub. L. 113–67), which mandated the application of the “site neutral” payment rate under the LTCH PPS for discharges that do not meet the statutory criteria for exclusion beginning in FY 2016. For cost reporting periods beginning on or after October 1, 2015, discharges that do not meet certain statutory criteria for exclusion are paid based on the site neutral payment rate. Discharges that do meet the statutory criteria continue to receive payment based on the LTCH PPS standard Federal payment rate. For more information on the statutory requirements of the Pathway for SGR Reform Act of 2013, we refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49601 through 49623) and the FY 2017 IPPS/LTCH PPS final rule (81 FR 57060 through 57075).

In the FY 2018 IPPS/LTCH PPS final rule, we implemented several provisions of the 21st Century Cures Act (“the Cures Act”) (Pub. L. 114–255) that affected the LTCH PPS. (For more information on these provisions, we refer readers to 82 FR 38299.)

In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41529), we made conforming changes to our regulations to implement the provisions of section 51005 of the Bipartisan Budget Act of 2018 (Pub. L. 115–123), which extends the transitional blended payment rate for site neutral payment rate cases for an additional 2 years. We refer readers to section VII.C of the preamble of the FY 2019 IPPS/LTCH PPS final rule for a discussion of our final policy. In addition, in the FY 2019 IPPS/LTCH PPS final rule, we removed the 25-percent threshold policy under 42 CFR 412.538. In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42439), we further revised our regulations to implement the provisions of the Pathway for SGR Reform Act of 2013 (Pub. L. 113–67) that relate to the payment adjustment for discharges from LTCHs that do not maintain the requisite discharge payment percentage and the process by which such LTCHs may have the payment adjustment discontinued.

2. Criteria for Classification as an LTCH
   a. Classification as an LTCH

   Under the regulations at §412.23(e)(1), to qualify to be paid under the LTCH PPS, a hospital must have a provision of care within Medicare. Furthermore, §412.23(e)(2)(i), which implements section 1886(d)(1)[B][iv] of the Act, requires that a hospital have an average Medicare inpatient length of stay of greater than 25 days to be paid under the LTCH PPS. In accordance with section 1206(a)(3) of the Pathway for SGR Reform Act of 2013 (Pub. L. 113–67), as amended by section 15007 of Public Law 114–255, we amended our regulations to specify that Medicare Advantage plans’ and site neutral payment rate discharges are excluded from the calculation of the average length of stay for all LTCHs, for discharges occurring in cost reporting period beginning on or after October 1, 2015.

   b. Hospitals Excluded From the LTCH PPS

   The following hospitals are paid under special payment provisions, as described in §412.22(c) and, therefore, are not subject to the LTCH PPS rules:
   • Veterans Administration hospitals.
   • Hospitals that are reimbursed under State cost control systems approved under 42 CFR part 403.
   • Hospitals that are reimbursed in accordance with demonstration projects authorized under section 402(a) of the Social Security Amendments of 1967 (Pub. L. 90–248) (42 U.S.C. 1395b–1), section 222(a) of the Social Security Amendments of 1972 (Pub. L. 92–603) (42 U.S.C. 1395b1 (note)) (Statewide-all payer systems, subject to the rate-of-increase test at section 1814(b) of the Act), or section 3201 of the Patient Protection and Affordable Care Act (Pub. L. 111–148) (42 U.S.C. 1315a).
   • Nonparticipating hospitals furnishing emergency services to Medicare beneficiaries.

3. Limitation on Charges to Beneficiaries

   In the August 30, 2002 final rule, we presented an in-depth discussion of beneficiary liability under the LTCH PPS (67 FR 55974 through 55997). This discussion was further clarified in the FY 2005 LTCH PPS final rule (69 FR 25367). In keeping with those discussions, if the Medicare payment to the LTCH is the full LTC–DRG payment amount, consistent with other established hospital prospective payment systems, §412.507 currently provides that an LTCH may not bill a Medicare beneficiary for more than the deductible and coinsurance amounts as specified under §§ 409.82, 409.83, and 409.87, and for items and services specified under §493.30(a). However, under the LTCH PPS, Medicare will only pay for services furnished during the days for which the beneficiary has coverage under the long-stay outlier (SSO) threshold is exceeded. If the Medicare payment was for a SSO case (in accordance with §412.529), and that payment was less than the full LTC–DRG payment amount because the beneficiary had insufficient coverage as a result of the remaining Medicare days, the LTCH also is currently permitted to charge the beneficiary for services delivered on those uncovered days (in accordance with §412.507). In the FY 2016 IPPS/LTCH PPS final rule (80 FR 49623), we amended our regulations to expressly limit the charges that may be imposed upon beneficiaries whose LTCHs’ discharges are paid at the site neutral payment rate under the LTCH PPS. In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57102), we amended the regulations under §412.507 to clarify our existing policy that blended payments made to an LTCH during its transitional period (that is, an LTCH’s payment for discharges occurring in cost reporting periods beginning in FY’s 2016 through 2019) are considered to be site neutral payment rate payments.

4. Best Available Data

   In section I.F. of the preamble of this proposed rule, we discussed how claims data from the MedPAR files and cost report data from HCRIS are the primary sources of data used in IPPS and LTCH PPS ratesetting. (We use the term “ratesetting” to describe the methods and processes we follow in determining the annual LTCH PPS payment rates and factors.) We also state that our goal is to always use the best available data overall for ratesetting. Ordinarily, the best available claims data for the LTCH
PS ratesetting is the MedPAR file that contains claims from discharges for the fiscal year that is 2 years prior to the fiscal year that is the subject of the rulemaking, because in general it is the most complete full fiscal year of claims data available at the time of development of the rule. Therefore, for FY 2022 ratesetting, under ordinary circumstances, the best available claims data would be the FY 2020 MedPAR file. Similarly, the best available cost report data for LTCH PPS ratesetting is ordinarily from the HCRIS dataset containing cost reports beginning 3 years prior to the fiscal year that is the subject of the rulemaking, because in general it is the most complete full fiscal year of cost report data available at the time of development of the rule. Therefore, for FY 2022 ratesetting, under ordinary circumstances, that would be the HCRIS dataset from FY 2019, which would primarily contain cost reports beginning during FY 2019 and ending during FY 2020, based on each LTCH’s fiscal year. The FY 2020 MedPAR claims file and the FY 2019 HCRIS dataset, however, both contain data significantly impacted by the COVID–19 PHE, meaning primarily the utilization of LTCH services was generally markedly different for certain types of services in FY 2020 than would have been expected in the absence of the PHE. To determine whether these data are still the best available data for LTCH PPS ratesetting, it is important to evaluate whether these data would better approximate the FY 2022 LTCH experience than data from before the COVID–19 PHE.

In section I.F of the preamble of this proposed rule, we discuss our examination of COVID–19 vaccination data from the CDC to help evaluate whether the FY 2020 data we ordinarily would use in ratesetting is appropriate for approximating the FY 2022 inpatient experience, including in LTCHs. The CDC data shows that as of April 15, the 7-day average number of administered vaccine doses reported to CDC per day was 3.3 million, a 10.3 percent increase from the previous week. As of April 15, 80 percent of people 65 or older have received at least one dose of vaccine; 63.7 percent are fully vaccinated. Nearly one-half (48.3 percent) of people 18 or older have received at least one dose of vaccine; 30.3 percent are fully vaccinated. Nationally, COVID–19-related emergency department visits as well as both hospital admissions and current hospitalizations have risen among people ages 65 years and older have decreased, likely demonstrating the important role vaccination plays in protecting against COVID–19.

As indicated by the CDC, COVID–19 vaccines are effective at preventing COVID–19. For example, a recent CDC report on the effectiveness of the Pfizer-BioNTech and Moderna COVID–19 vaccines when administered in real-world conditions found that after being fully vaccinated with either of these vaccines a person’s risk of infection is reduced by up to 90 percent. With respect to inpatient utilization in FY 2020, we believe that COVID–19 and the risk of disease were drivers of the different utilization patterns observed. Therefore, the continuing rapid increase in vaccinations coupled with the overall effectiveness of the vaccines leads us to conclude based on the information available to us at this time that there will be significantly lower risk of COVID–19 in FY 2022 and fewer hospitalizations for COVID–19 for Medicare beneficiaries in FY 2022 than there were in FY 2020. We conclude that this trend calls into question the applicability of inpatient hospital data from FY 2020 to the FY 2022 time period. We refer readers to section I.F of the preamble of this proposed rule for the details on this analysis.

In section I.F of the preamble of this proposed rule, we also discuss CDC guidance to healthcare facilities during the COVID–19 PHE (see https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-hcf.html). In its most recent guidance, the CDC described how the COVID–19 pandemic has changed how health care is delivered in the United States, and has affected the operations of healthcare facilities. Effects cited by the CDC include increases in patients seeking care for respiratory illnesses, patients deferring and delaying non-COVID–19 care, disruptions in supply chains, fluctuations in facilities’ occupancy, absenteeism among staff because of illness or caregiving responsibilities, and increases in mental health concerns.

When comparing LTCH claims data from the FY 2020 MedPAR to the FY 2019 MedPAR, similar to the findings for IPPS claims data, we observed several of the changes cited by the CDC. Overall, in FY 2020 LTCH admissions of LTCH PPS standard Federal payment rate cases declined 13 percent compared to FY 2019. However, LTCH PPS standard Federal payment rate cases for MS–LTC–DRG 177 (Respiratory infections with MCC), one of the MS–LTC–DRGs most often associated with the treatment of COVID–19, increased by 47 percent. Its share of total LTCH PPS standard Federal payment rate cases increased from 2.0 percent in FY 2019 to 3.4 percent in FY 2020. We also calculated and compared the aggregate case-mix values for LTCH PPS standard Federal payment rate cases in FY 2019 and FY 2020. For FY 2019 we calculated a case-mix value of 1.257 and for FY 2020 we calculated a case-mix value of 1.283, a relatively large 1-year increase in total case-mix of 2.1 percent. We note that these observed changes in the LTCH claims data also extend to the cost reports submitted by LTCHs that include the COVID–19 PHE time period, since those cost reports that extend into the COVID–19 PHE are based in part on the discharges that occurred during that time.

After analyzing this issue, we believe that the utilization patterns reflected in the FY 2020 LTCH claims data were significantly altered by the COVID–19 PHE. We also believe that data from before the COVID–19 PHE will better approximate the FY 2022 LTCH experience for the reasons discussed in section I.F of the preamble of this proposed rule, including an increase in the number of individuals who are vaccinated against COVID–19.

Therefore, we are proposing to use the FY 2019 data for the FY 2022 LTCH PPS ratesetting in situations where the utilization patterns reflected in the FY 2020 data were significantly impacted by the COVID–19 PHE. For example, we are proposing to use the FY 2019 MedPAR claims data and the FY 2018 HCRIS file in situations where we ordinarily would have used the FY 2020 MedPAR and the FY 2019 HCRIS file, respectively. This proposal is consistent with the proposal made for FY 2022 IPPS ratesetting in section I.F of the preamble of this proposed rule, and we note that IPPS rates and factors are used in determining the IPPS comparable amount under the short-stay outlier (SSO) policy at § 412.529 and the IPPS comparable amount under the site neutral payment rate at § 412.522. We refer readers to section I.F of the preamble of this proposed rule for further information on this proposal.

B. Proposed Medicare Severity Long-Term Care Diagnosis-Related Group (MS–LTC–DRG) Classifications and Relative Weights for FY 2022

1. Background

Section 123 of the BBRA required that the Secretary implement a PPS for LTCHs to replace the cost-based payment system under TEFRA. Section 307(b)(1) of the BIPA modified the
requirements of section 123 of the BBRA by requiring that the Secretary examine the feasibility and the impact of basing payment under the LTCH PPS on the use of existing (or refined) hospital DRGs that have been modified to account for different resource use of LTCH patients. When the LTCH PPS was implemented for cost reporting periods beginning on or after October 1, 2002, we adopted the same DRG patient classification system utilized at that time under the IPPS. As a component of the LTCH PPS, we refer to this patient classification system as the “long-term care diagnosis-related groups (LTC–DRGs).” Although the patient classification system used under both the LTCH PPS and the IPPS are the same, the relative weights are different. The established relative weight methodology and data used under the LTCH PPS result in relative weights under the LTCH PPS that reflect the differences in patient resource use of LTCH patients, consistent with section 123(a)(1) of the BBRA (Pub. L. 106–113).

As part of our efforts to better recognize severity of illness among patients, in the FY 2008 IPPS final rule with comment period (72 FR 47130), the MS–DRGs and the Medicare severity long-term care diagnosis-related groups (MS–LTC–DRGs) were adopted under the IPPS and the LTCH PPS, respectively, effective beginning October 1, 2007 (FY 2008). For a full description of the development, implementation, and rationale for the use of the MS–DRGs and MS–LTC–DRGs, we refer readers to the FY 2008 IPPS final rule with comment period (72 FR 47141 through 47175 and 47277 through 47299). (We note that, in that same final rule, we revised the regulations at §412.503 to specify that for LTCH discharges occurring on or after October 1, 2007, when applying the provisions of 42 CFR part 412, subpart O applicable to LTCHs for policy descriptions and payment calculations, all references to LTC–DRGs would be considered a reference to MS–LTC–DRGs. For the remainder of this section, we present the discussion in terms of the current MS–LTC–DRG patient classification system unless specifically referring to the previous LTC–DRG patient classification system that was in effect before October 1, 2007.)

The MS–DRGs adopted in FY 2008 represent an increase in the number of DRGs by 207 (that is, from 538 to 745) (72 FR 47171). The MS–DRGs were implemented annually. For FY 2022, there would be 767 MS–DRG groupings based on the proposed changes, as discussed in section II.E. of the preamble of this proposed rule. Consistent with section 123 of the BBRA, as amended by section 307(b)(1) of the BIPA, and §412.515 of the regulations, we use information derived from LTCH PPS patient records to classify LTCH discharges into distinct MS–LTC–DRGs based on clinical characteristics and estimated resource needs. Then we assign an appropriate weight to the MS–LTC–DRGs to account for the difference in resource use by patients exhibiting the case complexity and multiple medical problems characteristic of LTCHs. In this section of this proposed rule, we provide a general summary of our existing methodology for determining the FY 2022 MS–LTC–DRG relative weights under the LTCH PPS.

We are proposing in this FY 2022 IPPS/LTCH PPS proposed rule, in general, for FY 2022, to continue to use our existing methodology to determine the MS–LTC–DRG relative weights (as discussed in greater detail in section VII.B.3. of the preamble of this proposed rule). As we established when we implemented the dual rate LTCH PPS payment structure codified under §412.522, which began in FY 2016, we are proposing that the annual recalibration of the MS–LTC–DRG relative weights are determined: (1) Using only data from available LTCH PPS claims that would have qualified for payment under the new LTCH PPS standard Federal payment rate if that rate had been in effect at the time of discharge when claims data from time periods before the dual rate LTCH PPS payment structure applies are used to calculate the relative weights; and (2) using only data from available LTCH PPS claims that qualify for payment under the new LTCH PPS standard Federal payment rate when claims data from time periods after the dual rate LTCH PPS payment structure applies are used to calculate the weights (80 FR 49624). That is, under our current methodology, our MS–LTC–DRG relative weight calculations do not use data from cases paid at the site neutral payment rate under §412.522(c)(1) or data from cases that would have been paid at the site neutral payment rate if the dual rate LTCH PPS payment structure had been in effect at the time of that discharge. For the remainder of this discussion, we use the phrase “applicable LTCH cases” or “applicable LTCH data” when referring to the resulting claims data set used to calculate the relative weights (as described later in greater detail in section VII.B.3.c. of the preamble of this proposed rule). In addition, for FY 2022, we are proposing to continue to exclude the data from all-inclusive rate providers and LTCHs paid in accordance with demonstration projects, as well as any Medicare Advantage claims from the MS–LTC–DRG relative weight calculations for the reasons discussed in section VII.B.3.c. of the preamble of this proposed rule.

Furthermore, for FY 2022, in using data from applicable LTCH cases to establish MS–LTC–DRG relative weights, we are proposing to continue to establish low-volume MS–LTC–DRGs (that is, MS–LTC–DRGs with less than 25 cases) using our quintile methodology in determining the MS–LTC–DRG relative weights because LTCHs do not typically treat the full range of diagnoses as do acute care hospitals. Therefore, for purposes of determining the relative weights for the large number of low-volume MS–LTC–DRGs, we grouped all of the low-volume MS–LTC–DRGs into five quintiles based on average charges per discharge. Then, under our existing methodology, we accounted for adjustments made to LTCH PPS standard Federal payments for short-stay outlier (SSO) cases (that is, cases where the covered length of stay at the LTCH is less than or equal to five-sixths of the geometric average length of stay for the MS–LTC–DRG), and we made adjustments to account for nonmonotonically increasing weights, when necessary. The methodology is premised on more severe cases under the MS–LTC–DRG system requiring greater expenditure of medical care resources and higher average charges such that, in the severity levels within a base MS–LTC–DRG, the relative weights should increase monotonically with severity from the lowest to highest severity level. (We discuss each of these components of our MS–LTC–DRG relative weight methodology in greater detail in section VII.B.3.g. of the preamble of this proposed rule.)

2. Patient Classifications Into MS–LTC–DRGs

a. Background

The MS–DRGs (used under the IPPS) and the MS–LTC–DRGs (used under the LTCH PPS) are based on the CMS DRG structure. As noted previously in this section, we refer to the DRGs under the LTCH PPS as MS–LTC–DRGs although they are structurally identical to the MS–DRGs used under the IPPS. The MS–DRGs are organized into 25 major diagnostic categories (MDGs), most of which are based on a particular organ system of the body; the remainder involve multiple organ systems (such as
HIPAA requires covered entities to use the applicable medical data code set requirements when conducting HIPAA transactions (45 CFR 162.1000). Currently, upon the discharge of the patient, the LTCH must assign appropriate diagnosis and procedure codes from the most current version of the International Classification of Diseases, 10th Revision, Clinical Modification (ICD–10–CM) for diagnosis coding and the International Classification of Diseases, 10th Revision, Procedure Coding System (ICD–10–PCS) for inpatient hospital procedure coding, both of which were required to be implemented October 1, 2015 (45 CFR 162.1002(c)(2) and (3)). For additional information on the implementation of the ICD–10 coding system, we refer readers to section II.F.1 of the preamble of the FY 2017 IPPS/LTCH PPS final rule (81 FR 56787 through 56790) and section II.E.1 of the preamble of this proposed rule. Additional coding instructions and examples are published in the AHA’s Coding Clinic for ICD–10–CM/PCS.

To create the MS–DRGs (and by extension, the MS–LTC–DRGs), base DRGs were subdivided according to the presence of specific secondary diagnoses designated as complications or comorbidities (CCs) into one, two, or three levels of severity, depending on the impact of the CCs on resources used for those cases. Specifically, there are sets of MS–DRGs that are split into 2 or 3 subgroups based on the presence or absence of a CC or a major complication or comorbidity (MCC). We refer readers to section II.D. of the preamble of the FY 2008 IPPS/LTCH PPS final rule (73 FR 37280 through 37295).

MACs enter the clinical and demographic information submitted by LTCHs into their claims processing systems and subject this information to a series of automated screening processes called the Medicare Code Editor (MCE). These screens are designed to identify cases that require further review before assignment into a MS–LTC–DRG can be made. During this process, certain cases are selected for further explanation (74 FR 43949). After screening through the MCE, each claim is classified into the appropriate MS–LTC–DRG by the Medicare LTCH GROPER software on the basis of diagnosis and procedure codes and other demographic information (age, sex, and discharge status). The GROPER software used under the LTCH PPS is the same GROPER software program used under the IPPS. Following the MS–LTC–DRG assignment, the MAC determines the prospective payment amount by using the Medicare PRICER program, which accounts for hospital-specific adjustments. Under the LTCH PPS, we provide an opportunity for LTCHs to review the MS–LTC–DRG assignments made by the MAC and to submit additional information within a specified timeframe as provided in §412.513(c).

The GROPER software is used both to classify past cases to measure relative hospital resource consumption to establish the MS–LTC–DRG relative weights and to classify current cases for purposes of determining payment. The records for all Medicare hospital inpatient discharges are maintained in the MedPAR file. The data in this file are used to evaluate possible MS–DRG and MS–LTC–DRG classification changes and to recalibrate the MS–DRG and MS–LTC–DRG relative weights during our annual update under both the IPPS (§412.60(e)) and the LTCH PPS (§412.517), respectively.

b. Proposed Changes to the MS–LTC–DRGs for FY 2022

As specified by our regulations at §412.517(a), which require that the MS–LTC–DRG classifications and relative weights be updated annually, and consistent with our historical practice of using the same patient classification system under the LTCH PPS as is used under the IPPS, in this proposed rule, we are proposing to update the MS–LTC–DRG classifications presented in section II.F. of the preamble of this proposed rule. Accordingly, the proposed MS–LTC–DRGs for FY 2022 presented in section II.F. of the preamble of this proposed rule are the same as the MS–DRGs being proposed for use under the IPPS for FY 2022. In addition, because the proposed MS–LTC–DRGs for FY 2022 are the same as the proposed MS–DRGs for FY 2022, the other proposed changes that affect MS–DRG (and by extension MS–LTC–DRG) assignments under proposed GROPER Version 39 as discussed in section II.E. of the preamble of this proposed rule, including the proposed changes to the MCE software and the ICD–10–CM/PCS coding system, also are applicable under the LTCH PPS for FY 2022.
3. Development of the Proposed FY 2022 MS–LTC–DRG Relative Weights
   a. General Overview of the Development of the MS–LTC–DRG Relative Weights

   One of the primary goals for the implementation of the LTCH PPS is to pay each LTCH an appropriate amount for the efficient delivery of medical care to Medicare patients. The system must be able to account adequately for each LTCH’s case-mix in order to ensure both fair distribution of Medicare payments and access to adequate care for those Medicare patients whose care is costlier (67 FR 55984). To accomplish these goals, we have annually adjusted the LTCH PPS standard Federal prospective payment rate by the applicable relative weight in determining payment to LTCHs for each case. In order to make these annual adjustments under the dual rate LTCH PPS payment structure, beginning with FY 2016, we recalibrate the MS–LTC–DRG relative weighting factors using data from applicable LTCH cases (80 FR 49614 through 49617). Under this policy, the resulting MS–LTC–DRG relative weights would continue to be used to adjust the LTCH PPS standard Federal payment rate when calculating the payment for LTCH PPS standard Federal payment rate cases.

   The established methodology to develop the MS–LTC–DRG relative weights is generally consistent with the methodology established when the LTCH PPS was implemented in the August 30, 2002 LTCH PPS final rule (67 FR 55989 through 55991). However, there have been some modifications of our historical procedures for assigning relative weights in cases of zero volume and/or nonmonotonicity resulting from the adoption of the MS–LTC–DRGs, along with the change made in conjunction with the implementation of the dual rate LTCH PPS payment structure beginning in FY 2016 to use LTCH claims data from only LTCH PPS standard Federal payment rate cases (or LTCH PPS cases that would have qualified for payment under the LTCH PPS standard Federal payment rate if the dual rate LTCH PPS payment structure had been in effect at the time of the discharge). (For details on the modifications to our historical procedures for assigning relative weights in cases of zero volume and/or nonmonotonicity, we refer readers to the FY 2006 IPPS final rule with comment period (72 FR 47289 through 47295) and the FY 2009 IPPS final rule (73 FR 48542 through 48550).) For details on the change in our historical methodology to use LTCH claims data only from LTCH PPS standard Federal payment rate cases (or cases that would have qualified for such payment had the LTCH PPS dual payment rate structure been in effect at the time) to determine the MS–LTC–DRG relative weights, we refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49614 through 49617). Under the LTCH PPS, relative weights for each MS–LTC–DRG are a primary element used to account for the variations in cost per discharge and resource utilization among the payment groups (§ 412.515). To ensure that Medicare patients classified to each MS–LTC–DRG have access to an appropriate level of services and to encourage efficiency, we calculate a relative weight for each MS–LTC–DRG that represents the resources needed by an average inpatient LTCH case in that MS–LTC–DRG. For example, cases in an MS–LTC–DRG with a relative weight of 2 would, on average, cost twice as much to treat as cases in an MS–LTC–DRG with a relative weight of 1.

   b. Development of the Proposed MS–LTC–DRG Relative Weights for FY 2022

   In this proposed rule, we are proposing to continue to use our current methodology to determine the MS–LTC–DRG relative weights for FY 2022, including the continued application of established policies related to: The hospital-specific relative value methodology, the treatment of severity levels in the MS–LTC–DRGs, low-volume and no-volume MS–LTC–DRGs, adjustments for nonmonotonicity, the steps for calculating the MS–LTC–DRG relative weights with a budget neutrality factor, and only using data from applicable LTCH cases (which includes our policy of using cases that would meet the criteria for exclusion from the site neutral payment rate (or, for discharges occurring prior to the implementation of the dual rate LTCH PPS payment structure, would have met the criteria for exclusion had those criteria been in effect at the time of the discharge)).

   In this section, we present our proposed application of our existing methodology for determining the proposed MS–LTC–DRG relative weights for FY 2022, and we discuss the effects of our proposals concerning the data used to determine the proposed FY 2022 MS–LTC–DRG relative weights on the various components of our existing methodology in the discussion that follows. We generally provide the low-volume quintiles and no-volume crosswalk data previously published in Tables 13A and 13B for each annual proposal application of our supplemental IPPS/LTCH PPS related data files that are made available for public use via the internet on the CMS website for the respective rule and fiscal year (that is, FY 2019 and subsequent fiscal years) at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html to streamline the information made available to the public that is used in the annual development of IPPS Table 11 and to make it easier for the public to navigate and find the relevant data and information used for the development of proposed and final payment rates or factors for the applicable payment year while continuing to furnish the same information the tables provided in previous fiscal years (83 FR 41522). We refer readers to the CMS website for the low-volume quintiles and no-volume crosswalk data previously furnished via Tables 13A and 13B.

   c. Data

   Ordinarily, for this FY 2022 proposed rule, we would use FY 2020 Medicare LTCH claims data for purposes of calculating the proposed MS–LTC–DRG relative weights for FY 2022. As discussed in section VII.A.4 of the preamble of this proposed rule, we believe the utilization patterns reflected in the FY 2020 LTCH claims data was significantly impacted by the COVID–19 PHE. Therefore, for the purposes of calculating the proposed MS–LTC–DRG relative weights for FY 2022, we are proposing to use FY 2019 Medicare LTCH claims data from the March 2020 update of the FY 2019 MedPAR file, which we believe are the best available data at this time for the reasons discussed in section VII.A.4 of the preamble of this proposed rule. Specifically, for this FY 2022 IPPS/LTCH PPS proposed rule, we obtained total charges from FY 2019 Medicare LTCH claims data from the March 2020 update of the FY 2019 MedPAR file and are proposing to use proposed Version 39 of the GROUPER to classify LTCH cases. Consistent with our historical practice, we are proposing to use the best available data, if applicable, in the final rule. Specifically, we would use those data and the finalized Version 39 of the GROUPER in establishing the FY 2022 MS–LTC–DRG relative weights in the final rule.

   To calculate the proposed FY 2022 MS–LTC–DRG relative weights under the dual rate LTCH PPS payment structure, we are proposing to continue to use applicable LTCH data, which includes our policy of using cases that meet the criteria for exclusion from the site neutral payment rate (or, for discharges occurring prior to the implementation of the dual rate LTCH PPS payment structure, would have met the criteria had they been in effect at the time of the discharge).
FR 40624). Specifically, we began by first evaluating the LTCH claims data in the March 2020 update of the FY 2019 MedPAR file to determine which LTCH cases would meet the criteria for exclusion from the site neutral payment rate under §412.522(b) or had the dual rate LTCH PPS payment structure applied to those cases at the time of discharge. We identified the FY 2019 LTCH cases that were not assigned to MS–LTC–DRGs 876, 880, 881, 882, 883, 884, 885, 886, 887, 894, 895, 896, 897, 945, and 946, which identify LTCH cases that do not have a principal diagnosis relating to a psychiatric diagnosis or to rehabilitation; and that either—

- The admission to the LTCH was “immediately preceded” by discharge from a subsection (d) hospital and the immediately preceding stay in that subsection (d) hospital included at least 3 days in an ICU, as we define under the ICU criterion; or
- The admission to the LTCH was “immediately preceded” by discharge from a subsection (d) hospital and the claim for the LTCH discharge includes the applicable procedure code that indicates at least 96 hours of ventilator services were provided during the LTCH stay, as we define under the ventilator criterion.

Claims data from the FY 2019 MedPAR file that reported ICD–10–PCS procedure code 5A1955Z were used to identify cases involving at least 96 hours of ventilator services in accordance with the ventilator criterion. (We note that, for purposes of developing the MS–LTC–DRG relative weights we have previously addressed the treatment of cases that would have been excluded from the site neutral payment rate under the statutory provisions that provided for temporary exception from the site neutral payment rate under the LTCH PPS for certain spinal cord specialty hospitals or for certain severe wound care discharges from certain LTCHs provided by sections 15009 and 15010 of Public Law 114–255, respectively. The temporary exception from the site neutral payment rate for certain spinal cord specialty hospitals is effective for discharges in cost reporting periods beginning during FYs 2018 and 2019, and the temporary exception from the site neutral payment rate for certain severe wound care discharges from certain LTCHs was effective for a discharge in cost reporting period beginning during FY 2018. These statutory provisions will no longer be in effect for any discharges occurring in FY 2022. Therefore, consistent with our historical policy of only using cases that meet the criteria for exclusion from the site neutral payment rate, we excluded these cases in our development of the proposed MS–LTC–DRG relative weights for FY 2022.)

Furthermore, consistent with our historical methodology, we excluded any claims in the resulting data set that were submitted by LTCHs that were all-inclusive rate providers and LTCHs that are paid in accordance with demonstration projects authorized under section 402(a) of Public Law 90–248 or section 222(a) of Public Law 92–603. In addition, consistent with our historical practice and our policies, we excluded any Medicare Advantage (Part C) claims in the resulting data. Such claims were identified based on the presence of a GHO Paid indicator value of “1” in the MedPAR files. The claims that remained after these three trims (that is, the applicable LTCH data) were then used to calculate the MS–LTC–DRG relative weights for FY 2021.

In summary, in general, we identified the claims data used in the development of the proposed MS–LTC–DRG relative weights in this proposed rule by trimming claims data that were paid the site neutral payment rate or would have been paid the site neutral payment rate had the dual payment rate structure been in effect. Finally, we propose to trim the claims data of all-inclusive rate providers reported in the March 2020 update of the FY 2019 MedPAR file and any Medicare Advantage claims data. There were no data from any LTCHs that are paid in accordance with a demonstration project reported in the March 2020 update of the FY 2019 MedPAR file, but, had there been any, we would have trimmed the claims data from those LTCHs as well, in accordance with our established policy. We are proposing to use the remaining data (that is, the applicable LTCH data) to calculate the relative weights for FY 2022.

d. Hospital-Specific Relative Value (HSRV) Methodology

By nature, LTCHs often specialize in certain areas, such as ventilator-dependent patients. Some case types (MS–LTC–DRGs) may be treated, to a large extent, in hospitals that have, from a perspective of charges, relatively high (or low) charges. This nonrandom distribution of cases with relatively high (or low) charges in specific MS–LTC–DRGs has the potential to inappropriately distort the measure of average charges. To account for the fact that cases may not be randomly distributed across LTCHs, consistent with our historical practice, we had used since the implementation of the LTCH PPS, in this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to continue to use a hospital-specific relative value (HSRV) methodology to calculate the MS–LTC–DRG relative weights for FY 2022. We believe that this method removes this hospital-specific source of bias in measuring LTCH average charges (67 FR 55985). Specifically, under this methodology, we reduce the impact of the variation in charges across providers on any particular MS–LTC–DRG relative weight by converting each LTCH’s charge for an applicable LTCH case to a relative value based on that LTCH’s average charge for such cases.

Under the HSRV methodology, we standardize charges for each LTCH by converting its charges for each applicable LTCH case to hospital-specific relative charge values and then adjusting those values for the LTCH’s case-mix. The adjustment for case-mix is needed to rescale the hospital-specific relative charge values (which, by definition, average 1.0 for each LTCH). The average relative weight for an LTCH is its case-mix; therefore, it is reasonable to scale each LTCH’s average relative charge value by its case-mix. In this way, each LTCH’s relative charge value is adjusted by its case-mix to an average that reflects the complexity of the applicable LTCH cases it treats relative to the complexity of the applicable LTCH cases treated by all other LTCHs (the average LTCH PPS case-mix of all applicable LTCH cases across all LTCHs).

In accordance with our established methodology, for FY 2022, we are proposing to continue to standardize charges for each applicable LTCH case by first dividing the adjusted charge for the case (adjusted for SSOs under §412.529 as described in section VII.B.3.g. (Step 3) of the preamble of this proposed rule) by the average adjusted charge for all applicable LTCH cases at the LTCH in which the case was treated. SSO cases are cases with a length of stay that is less than or equal to five-sixths the average length of stay of the MS–LTC–DRG (§412.529 and §412.503). The average adjusted charge reflects the average intensity of the health care services delivered by a particular LTCH and the average cost level of that LTCH. The resulting ratio was multiplied by that LTCH’s case-mix index to determine the standardized charge for the case.

Multiplying the resulting ratio by the LTCH’s case-mix index accounts for the fact that the same relative charges are given greater weight at an LTCH with higher average costs than they would at an LTCH with low average costs, which is needed to adjust each LTCH’s relative
charge value to reflect its case-mix relative to the average case-mix for all LTCHs. By standardizing charges in this manner, we count charges for a Medicare patient at an LTCH with high average charges as less resource intensive than they would be at an LTCH with low average charges. For example, a $10,000 charge for a case at an LTCH with an average adjusted charge of $17,500 reflects a higher level of relative resource use than a $10,000 charge for a case at an LTCH with the same case-mix, but an average adjusted charge of $35,000. We believe that the adjusted charge of an individual case more accurately reflects actual resource use for an individual LTCH because the variation in charges due to systematic differences in the markup of charges among LTCHs is taken into account.

e. Treatment of Severity Levels in Developing the Proposed MS–LTC–DRG Relative Weights

For purposes of determining the MS–LTC–DRG relative weights, under our historical methodology, there are three different categories of MS–DRGs based on volume of cases within specific MS–LTC–DRGs: (1) MS–LTC–DRGs with at least 25 applicable LTCH cases in the data used to calculate the relative weight, which are each assigned a unique relative weight; (2) low-volume MS–LTC–DRGs (that is, MS–LTC–DRGs that contain between 1 and 24 applicable LTCH cases) that are grouped into quintiles (as described later in this section of this proposed rule) and assigned the relative weight of the quintile); and (3) no-volume MS–LTC–DRGs that are cross-walked to other MS–LTC–DRGs based on the clinical similarities and assigned the relative weight of the cross-walked MS–LTC–DRG (as described in greater detail in this proposed rule). For FY 2022, we are proposing to continue to use applicable LTCH cases to establish the same volume-based categories to calculate the proposed FY 2022 MS–LTC–DRG relative weights.

In determining the proposed FY 2022 MS–LTC–DRG relative weights, when necessary, as is our longstanding practice, we are proposing to make adjustments to account for nonmonotonicity, as discussed in greater detail later in this section of this proposed rule. We refer readers to the discussion in the FY 2010 IPPS/RY 2010 LTCH PPS final rule for our rationale for including an adjustment for nonmonotonicity (74 FR 43953 through 43954).

f. Proposed Low-Volume MS–LTC–DRGs

In order to account for proposed MS–LTC–DRGs with low-volume (that is, with fewer than 25 applicable LTCH cases), consistent with our existing methodology, we are proposing to continue to employ the quintile methodology for low-volume MS–LTC–DRGs, such that we grouped the “low-volume MS–LTC–DRGs” (that is, MS–LTC–DRGs that contain between 1 and 24 applicable LTCH cases into one of five categories (quintiles) based on average charges (67 FR 55984 through 55995; 72 FR 47283 through 47288; and 81 FR 25148).) In cases where the initial assignment of a low-volume MS–LTC–DRG to a quintile results in nonmonotonicity within a base-DRG, we propose to maintain a quintile outcome of the proposed relative weights for the proposed FY 2022 relative weights for the proposed low-volume MS–LTC–DRGs, consistent with our historical practice, we are proposing to use the five low-volume quintiles described previously. We determined a proposed relative weight and (geometric) average length of stay for each of the five proposed low-volume MS–LTC–DRGs to specific low-volume quintiles using the methodology described in section VII.B.3.g. of the preamble of this proposed rule. We are proposing to assign the same proposed relative weight and average length of stay to each of the proposed low-volume MS–LTC–DRGs that make up an individual low-volume quintile. We note that, as this system is dynamic, it is possible that the number and specific type of MS–LTC–DRGs with a low-volume of applicable LTCH cases will vary in the future. Furthermore, we note that we continue to monitor the volume (that is, the number of applicable LTCH cases) in the low-volume quintiles to ensure that our quintile assignments are based on the best available data (that is, the March 2020 update of the FY 2019 MedPAR files), we identified 251 MS–LTC–DRGs that contained between 1 and 24 applicable LTCH cases. This list of MS–LTC–DRGs was then divided into 1 of the 5 low-volume quintiles, each containing at least 5 MS–LTC–DRGs (251/5 = 50 with a remainder of 1). We assigned the low-volume MS–LTC–DRGs to specific low-volume quintiles by sorting the low-volume MS–LTC–DRGs in ascending order by average charge in accordance with our established methodology. Based on the data available for this proposed rule, the number of proposed MS–LTC–DRGs with less than 25 applicable LTCH cases was not evenly divisible by 5 and, therefore, we are proposing to employ our historical methodology for determining which of the low-volume quintiles would contain the additional low-volume MS–LTC–DRG. Specifically for this proposed rule, because the average charge of the 51st low-volume MS–LTC–DRG in the sorted list was closer to the average charge of the 50th low-volume MS–LTC–DRG (assigned to Quintile 1) than to the average charge of the 52nd low-volume MS–LTC–DRG (assigned to Quintile 2), we assigned it to Quintile 1 (such that Quintile 1 contains 51 low-volume MS–LTC–DRGs before any adjustments for nonmonotonicity, as discussed in this proposed rule). This resulted in 4 of the 5 low-volume quintiles containing 50 MS–LTC–DRGs (Quintiles 2, 3, 4, and 5) and 1 of the low-volume quintile containing 51 MS–LTC–DRGs (Quintile 1). As discussed earlier, for this proposed rule, we are providing the list of the composition of the proposed low-volume quintiles for proposed low-volume MS–LTC–DRGs for FY 2022 in a supplemental data file for public use posted via the internet on the CMS website for this proposed rule at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html in order to streamline the information made available to the public that is used in the annual development of Table 11.

In order to determine the proposed FY 2022 relative weights for the proposed low-volume MS–LTC–DRGs, consistent with our historical practice, we are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously. We are proposing to use the five low-volume quintiles described previously.
7 days or less and statistical outliers (Steps 1 and 2). Next, we are proposing to adjust the number of applicable LTCH cases in each proposed MS–LTC–DRG (or proposed low-volume quintile) for the effect of SSO cases (Step 3). After removing applicable LTCH cases with a length of stay of 7 days or less (Step 1) and statistical outliers (Step 2), which are the SSO-adjusted applicable LTCH cases and corresponding charges (Step 3), we are proposing to calculate proposed “relative adjusted weights” for each proposed MS–LTC–DRG (or proposed low-volume quintile) using the HSRV method.

Step 1—Remove cases with a length of stay of 7 days or less. The first step in our proposed calculation of the proposed FY 2022 MS–LTC–DRG relative weights is to remove cases with a length of stay of 7 days or less. The MS–LTC–DRG relative weights reflect the average of resources used on representative cases of a specific type. Generally, cases with a length of stay of 7 days or less do not belong in an LTCH because these stays do not fully receive or benefit from treatment that is typical in an LTCH stay, and full resources are often not used in the earlier stages of admission to an LTCH. If we were to include stays of 7 days or less in the computation of the proposed FY 2022 MS–LTC–DRG relative weights, the value of many relative weights would decrease and, therefore, payments would decrease to a level that may no longer be appropriate. We do not believe that it would be appropriate to approximate the integrity of the payment determination for those LTCH cases that actually benefit from and receive a full course of treatment at an LTCH by including data from these very short stays. Therefore, consistent with our existing relative weight methodology, in determining the proposed FY 2022 MS–LTC–DRG relative weights, we are proposing to remove LTCH cases with a length of stay of 7 days or less from applicable LTCH cases. (For additional information on what is removed in this step of the relative weight methodology, we refer readers to 67 FR 55989 and 74 FR 43959.)

Step 2—Remove statistical outliers. The next step in our proposed calculation of the proposed FY 2022 MS–LTC–DRG relative weights is to remove statistical outlier cases from the LTCH cases with a length of stay of at least 8 days. Consistent with our existing relative weight methodology, we are proposing to continue to define statistical outliers as cases that are outside of 3.0 standard deviations from the mean of the log distribution of both charges per case and the charges per day for each MS–LTC–DRG. These statistical outliers are removed prior to calculating the proposed relative weights because we believe that they may represent aberrations in the data that distort the measure of average resource use. Including those LTCH cases in the calculation of the proposed relative weights could result in an inaccurate relative weight that does not truly reflect relative resource use among those MS–LTC–DRGs. (For additional information on what is removed in this step of the proposed relative weight methodology, we refer readers to 67 FR 55989 and 74 FR 43959.) After removing cases with a length of stay of 7 days or less and statistical outliers, we were left with applicable LTCH cases that have a length of stay greater than or equal to 8 days. In this proposed rule, we refer to these cases as “trimmed applicable LTCH cases.”

Step 3—Adjust charges for the effects of SSOs. As the next step in the calculation of the proposed FY 2022 MS–LTC–DRG relative weights, consistent with our historical approach, we are proposing to adjust each LTCH’s charges per discharge for those remaining cases (that is, trimmed applicable LTCH cases) for the effects of SSOs (as defined in §412.529(a) in conjunction with §412.503). Specifically, we are proposing to make this adjustment by counting an SSO case as a fraction of a discharge based on the ratio of the length of stay of the case to the average length of stay of all cases grouped to the MS–LTC–DRG. This has the effect of proportionately reducing the impact of the lower charges for the SSO cases in calculating the average charge for the MS–LTC–DRG. This process produces the same result as if the actual charges per discharge of an SSO case were adjusted to what they would have been had the patient’s length of stay been equal to the average length of stay of all MS–LTC–DRG cases. Counting SSO cases as full LTCH cases with no adjustment in determining the proposed FY 2022 MS–LTC–DRG relative weights would lower the proposed FY 2022 MS–LTC–DRG relative weight for affected MS–LTC–DRGs because the relatively lower charges of the SSO cases would bring down the average charge for all cases within a MS–LTC–DRG. This would result in an “underpayment” for non-SSO cases and an “overpayment” for SSO cases. Therefore, we are proposing to continue to adjust for SSO cases under §412.529(a) in conjunction with §412.503.

Step 4—Calculate the proposed FY 2022 MS–LTC–DRG relative weights on an iterative basis. Consistent with our historical relative weight methodology, we are proposing to calculate the proposed FY 2022 MS–LTC–DRG relative weights using the HSRV methodology, which is an iterative process. First, for each SSO-adjusted trimmed applicable LTCH case, we calculated a hospital-specific relative charge value by dividing the charge per discharge after adjusting for SSOs of the LTCH case (from Step 3) by the average charge per SSO-adjusted discharge for the LTCH in which the case occurred. The resulting ratio is then multiplied by the LTCH’s case-mix index to produce an adjusted hospital-specific relative charge value for the case. We used an initial case-mix index value of 1.0 for each LTCH.

For each proposed MS–LTC–DRG, we calculated the proposed FY 2022 relative weight by dividing the SSO-adjusted average of the hospital-specific relative charge values for applicable LTCH cases for the proposed MS–LTC–DRG (that is, the sum of the hospital-specific relative charge value, as previously stated, divided by the sum of equivalent cases from Step 3 for each proposed MS–LTC–DRG) by the overall SSO-adjusted average hospital-specific relative charge value across all applicable LTCH cases for all LTCHs (that is, the sum of the hospital-specific relative charge value, as previously stated, divided by the sum of equivalent applicable LTCH cases from Step 3 for each proposed MS–LTC–DRG). Using these recalculated MS–LTC–DRG relative weights, each LTCH’s average relative weight for all of its SSO-adjusted trimmed applicable LTCH cases (that is, its case-mix) was calculated by dividing the sum of all the LTCH’s SSO–LTC–DRG relative weights by its total number of SSO-adjusted trimmed applicable LTCH cases. The LTCHs’ hospital-specific relative charge values (from previous) are then multiplied by the hospital-specific case-mix indexes. The hospital-specific case-mix adjusted relative charge values are then used to calculate a new set of proposed MS–LTC–DRG relative weights across all LTCHs. This iterative process continued until there was convergence between the relative weights produced at adjacent steps, for example, when the maximum difference was less than 0.0001.
Step 5—Determine a proposed FY 2022 relative weight for MS–LTC–DRGs with no applicable LTCH cases.

Using the trimmed applicable LTCH cases, consistent with our historical methodology, we identified the proposed MS–LTC–DRGs for which there were no claims in the March 2020 update of the FY 2019 MedPAR file and, therefore, for which no charge data was available for these MS–LTC–DRGs. Because patients with a number of the diagnoses under these MS–LTC–DRGs may be treated at LTCHs, consistent with our historical methodology, we generally assign a relative weight to each of the no-volume MS–LTC–DRGs based on clinical similarity and relative costliness (with the exception of “transplant” MS–LTC–DRGs, “error” MS–LTC–DRGs, and MS–LTC–DRGs that indicate a principal diagnosis related to a psychiatric diagnosis or rehabilitation (referred to as the “psychiatric or rehabilitation” MS–LTC–DRGs), as discussed later in this section of this proposed rule). [For additional information on this step of the relative weight methodology, we refer readers to 67 FR 55591 and 74 FR 43959 through 43960.]

Consistent with our existing methodology, we are proposing to cross-walk each no-volume proposed MS–LTC–DRG to another proposed MS–LTC–DRG for which we calculated a proposed relative weight (determined in accordance with the methodology as previously described). Then, the “no-volume” proposed MS–LTC–DRG is assigned a proposed relative weight (and average length of stay) of the proposed MS–LTC–DRG to which it was cross-walked (as described in greater detail in this section of this proposed rule).

Of the 767 proposed MS–LTC–DRGs for FY 2022, we identified 375 MS–LTC–DRGs for which there were no trimmed applicable LTCH cases. This number includes the 11 “transplant” MS–LTC–DRGs, the 2 “error” MS–LTC–DRGs, and the 15 “psychiatric or rehabilitation” MS–LTC–DRGs, which are discussed in this section of this rule, such that we identified 347 MS–LTC–DRGs that for which we would propose to assign a relative weight using our existing “no-volume” proposed MS–LTC–DRG methodology (that is, 375 – 11 – 2 – 15 = 347). We are proposing to assign proposed relative weights to each of the 347 no-volume proposed MS–LTC–DRGs based on clinical similarity and relative costliness to 1 of the remaining 392 (767 – 375 = 392) proposed MS–LTC–DRGs for which we calculated proposed relative weights based on the trimmed applicable LTCH cases in the FY 2019 MedPAR file data using the steps described previously. (For the remainder of this discussion, we refer to the “cross-walked” proposed MS–LTC–DRGs as one of the 392 proposed MS–LTC–DRGs to which we cross-walked each of the 347 “no-volume” proposed MS–LTC–DRGs.) Then, we are generally proposing to assign the 347 no-volume proposed MS–LTC–DRGs the proposed relative weight of the cross-walked proposed MS–LTC–DRG. (As explained in Step 6, when necessary, we made adjustments to account for nonmonotonicity.)

We cross-walked the no-volume proposed MS–LTC–DRG to a proposed MS–LTC–DRG for which we calculated proposed relative weights based on the March 2020 update of the FY 2019 MedPAR file, and to which it is similar clinically in intensity of use of resources and relative costliness as determined by criteria such as care provided during the period of time surrounding surgery, surgical approach (if applicable), length of time of surgical procedure, postoperative care, and length of stay. (For more details on our process for evaluating relative costliness, we refer readers to the FY 2010 IPPS/RY 2010 LTCH PPS final rule (73 FR 48543).) We believe in the rare event that there would be a few LTCH cases grouped to one of the no-volume proposed MS–LTC–DRGs in FY 2022, the proposed relative weights assigned based on the cross-walked proposed MS–LTC–DRGs would result in an appropriate LTCH PPS payment on each crosswalk, which are based on clinical similarity and relative costliness, would be expected to generally require equivalent relative resource use.

Then we assigned the proposed relative weight of the cross-walked proposed MS–LTC–DRG as the proposed relative weight for the no-volume proposed MS–LTC–DRG such that both of these proposed MS–LTC–DRGs (that is, the no-volume proposed MS–LTC–DRG and the cross-walked proposed MS–LTC–DRG) have the same proposed relative weight for FY 2022. We note that, if the cross-walked proposed MS–LTC–DRG had 25 applicable LTCH cases or more, its proposed relative weight (calculated using the methodology as previously described in Steps 1 through 4) is assigned to the no-volume proposed MS–LTC–DRG as well. Similarly, if the proposed MS–LTC–DRG to which the no-volume proposed MS–LTC–DRG was cross-walked and, therefore, was designated to 1 of the proposed low-volume quintiles for purposes of determining the proposed relative weights, we assigned the proposed relative weight of the applicable proposed low-volume quintile to the no-volume proposed MS–LTC–DRG such that both of these proposed MS–LTC–DRGs (that is, the no-volume proposed MS–LTC–DRG and the cross-walked proposed MS–LTC–DRG) have the same proposed relative weight for FY 2022. (As we noted previously, in the infrequent case where nonmonotonicity involving a no-volume proposed MS–LTC–DRG resulted, additional adjustments as described in Step 6 are required in order to maintain monotonically increasing proposed relative weights.)

As discussed earlier, for this proposed rule, we are providing the list of the no-volume proposed MS–LTC–DRGs and the proposed MS–LTC–DRGs to which each was cross-walked (that is, the cross-walked proposed MS–LTC–DRGs) for FY 2022 in a supplemental data file for public use posted via the internet on the CMS website for this proposed rule at: [http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/ AcuteInpatientPPS/index.html in order to streamline the information made available to the public that is used in the annual development of Table 11.]

To illustrate this proposed methodology for determining the proposed relative weights for the proposed FY 2022 MS–LTC–DRGs with no applicable LTCH cases, we are providing the following example, which refers to the no-volume proposed MS–LTC–DRGs crosswalk information for FY 2022 (which, as previously stated, we are providing in a supplemental data file posted via the internet on the CMS website for this proposed rule).

Example: There were no trimmed applicable LTCH cases in the FY 2019 MedPAR file that we are using for this proposed rule for MS–LTC–DRG 061 (Ischemic stroke, precerebral occlusion or transient ischemia with thrombolytic agent with MCC). We determined that MS–LTC–DRG 070 (Nonspecific cerebrovascular disorders with MCC) is similar clinically and based on resource use to MS–LTC–DRG 061. Therefore, we are proposing to assign the same relative weight (and average length of stay) of MS–LTC–DRG 70 of 0.8730 for FY 2022 to MS–LTC–DRG 061 (we refer readers to Table 11, which is listed in section VI. of the Addendum to this proposed rule and is available via the internet on the CMS website).

Again, we note that, as this system is dynamic, it is entirely possible that the number of MS–LTC–DRGs with no volume will vary in the future. Consistent with our historical practice,
we are proposing to use the best available claims data, if applicable, to identify the trimmed applicable LTCH cases from which we determined the relative weights in the final rule.

For FY 2022, consistent with our historical relative weight methodology, we are proposing to establish a relative weight of 0.0000 for the following transplant MS–LTC–DRGs: Heart Transplant or Implant of Heart Assist System with MCC (MS–LTC–DRG 001); Heart Transplant or Implant of Heart Assist System without MCC (MS–LTC–DRG 002); Liver Transplant with MCC or Intestinal Transplant (MS–LTC–DRG 005); Liver Transplant without MCC (MS–LTC–DRG 006); Lung Transplant (MS–LTC–DRG 007); Simultaneous Pancreas/Kidney Transplant (MS–LTC–DRG 008); Simultaneous Pancreas/Kidney Transplant with Hemodialysis (MS–LTC–DRG 019); Pancreas Transplant (MS–LTC–DRG 010); Kidney Transplant (MS–LTC–DRG 652); Kidney Transplant with Hemodialysis with MCC (MS–LTC–DRG 650), and Kidney Transplant with Hemodialysis without MCC, (MS LTC DRG 651). This is because Medicare only covers these procedures if they are performed at a hospital that has been certified for the specific procedures by Medicare and presently no LTCH has been so certified. At the present time, we include these 11 transplant MS–LTC–DRGs in the GROUPPER program for administrative purposes only. Because we use the same GROUPPER program for LTCHs as is used under the IPPS, removing these MS–LTC–DRGs would be administratively burdensome. (For additional information regarding our treatment of transplant MS–LTC–DRGs, we refer readers to the FY 2010 LTCH PPS final rule (74 FR 43964)). In addition, consistent with our historical policy, we are proposing to establish a relative weight of 0.0000 for the 2 “error” MS–LTC–DRGs (that is, MS–LTC–DRG 998 (Principal Diagnosis Invalid as Discharge Diagnosis) and MS–LTC–DRG 999 (Ungradable)) because applicable LTCH cases grouped to these MS–LTC–DRGs would be administratively burdensome. Additionally, we are proposing to establish a relative weight of 0.0000 for the following “psychiatric or rehabilitation” MS–LTC–DRGs: MS–LTC–DRG 876 (O.R. Procedure with Principal Diagnoses of Mental Illness); MS–LTC–DRG 880 (Acute Adjustment Reaction & Psychosocial Dysfunction); MS–LTC–DRG 881 (Depressive Neuroses Except Depressive); MS–LTC–DRG 883 (Disorders of Personality & Impulse Control); MS–LTC–DRG 884 (Organic Disturbances & Mental Retardation); MS–LTC–DRG 885 (Psychoses); MS–LTC–DRG 886 (Behavioral & Developmental Disorders); MS–LTC–DRG 887 (Other Mental Disorder Diagnoses); MS–LTC–DRG 894 (Alcohol/Drug Abuse or Dependence, Left Ama); MS–LTC–DRG 895 (Alcohol/Drug Abuse or Dependence, with Rehabilitation Therapy); MS–LTC–DRG 896 (Alcohol/Drug Abuse or Dependence, without Rehabilitation Therapy with MCC); MS–LTC–DRG 897 (Alcohol/Drug Abuse or Dependence, without Rehabilitation Therapy without MCC); MS–LTC–DRG 945 (Rehabilitation with CC/MCC); and MS–LTC–DRG 946 (Rehabilitation without CC/MCC). We propose to establish a relative weight 0.0000 for these 15 “psychiatric or rehabilitation” MS LTC DRGs because the blended payment rate and temporary exceptions to the site neutral payment rate will not be applicable for any LTCH discharges occurring in FY 2022, and as such payment under the LTCH PPS will be no longer be made in part based on the LTCH PPS standard Federal payment rate for any discharges assigned to those MS–DRGs.

Step 6—Adjust the proposed FY 2022 MS–LTC–DRG relative weights to account for nonmonotonically increasing relative weights.

The MS–DRGs contain base DRGs that have been subdivided into one, two, or three severity of illness levels. Where there are three severity levels, the most severe level has at least one secondary diagnosis code that is referred to as an MCC (that is, major complication or comorbidity). The next lower severity level contains cases with at least one secondary diagnosis code that is referred to as “without CC/MCC.” The next lower severity level contains cases with at least one secondary diagnosis code that is referred to as “without CC/MCC.” When data do not support the creation of three severity levels, the base MS–DRG is subdivided into either two levels or the base MS–DRG is not subdivided. The two-level subdivisions may consist of the MS–DRG with CC/MCC and the MS–DRG without CC/MCC. Alternatively, the other type of two-level subdivision may consist of the MS–DRG with MCC and the MS–DRG without MCC.

In those base MS–LTC–DRGs that are split into either two or three severity levels, cases classified into the “without CC/MCC” MS–LTC–DRG are expected to have a lower resource use (and lower costs) than the “with CC/MCC” MS–LTC–DRG. In the case of a two-level split or both the “with CC” and the “with MCC” MS–LTC–DRGs (in the case of a three-level split). That is, theoretically, cases that are more severe typically require greater expenditure of medical care resources and would result in higher average charges. Therefore, in the three severity levels, relative weights should increase by severity, from lowest to highest. If the relative weights decrease as severity increases (that is, if within a base MS–LTC–DRG, an MS–LTC–DRG with CC has a higher relative weight than one with MCC, or the MS–LTC–DRG “without CC/MCC” has a higher relative weight than either of the others), they are nonmonotonic. We continue to believe that utilizing nonmonotonically relative weights to adjust Medicare payments would result in inappropriate payments because the payment for the cases in the higher severity level in a base MS–LTC–DRG (which are generally expected to have higher resource use and costs) would be lower than the payment for cases in a lower severity level within the same base MS–LTC–DRG (which are generally expected to have lower resource use and costs). Therefore, in determining the proposed FY 2022 MS–LTC–DRG relative weights, consistent with our historical methodology, we are proposing to continue to combine MS–LTC–DRG severity levels within a base MS–LTC–DRG for the purpose of computing a relative weight when necessary to ensure that monotonicity is maintained. For a comprehensive description of our existing methodology to adjust for nonmonotonicity, we refer readers to the FY 2010 IPPS/RY 2010 LTCH PPS final rule (74 FR 43964) through 43966). Any exceptions for nonmonotonicity that were made in determining the proposed FY 2022 MS–LTC–DRG relative weights in this proposed rule by applying this methodology are denoted in Table 11, which is listed in section VI. of the Addendum to this proposed rule and is available via the internet on the CMS website.

Step 7—Calculate the proposed FY 2022 MS–LTC–DRG reclassification and recalibration budget neutrality factor. Each final LTCH classification and relative weight change is evaluated against § 412.517(b) (in conjunction with § 412.503), the annual update to the LTCH PPS final rule (74 FR 43964) through 43966). Any exceptions for nonmonotonicity that were made in determining the proposed FY 2022 MS–LTC–DRG relative weights in this proposed rule by applying this methodology are denoted in Table 11, which is listed in section VI. of the Addendum to this proposed rule and is available via the internet on the CMS website.
annual update of the MS–LTC–DRG classifications and relative weights, we refer readers to the FY 2008 LTCH PPS final rule (72 FR 26881 and 26882).

The MS–LTC–DRG classifications and relative weights are updated annually based on the best available LTCH claims data to reflect changes in relative LTCH resource use (§ 412.517(a) in conjunction with § 412.503). To achieve the budget neutrality requirement at § 412.517(b), under our established methodology, for each annual update, the MS–LTC–DRG relative weights are uniformly adjusted to ensure that estimated aggregate payments under the LTCH PPS would not be affected (that is, decreased or increased). Consistent with that provision, we are proposing to update the MS–LTC–DRG classifications and relative weights for FY 2022 based on the best available LTCH data for applicable LTCH cases, and continue to apply a budget neutrality adjustment in determining the FY 2022 MS–LTC–DRG relative weights.

In this proposed rule, to ensure budget neutrality in the update to the MS–LTC–DRG classifications and relative weights under § 412.517(b), we are proposing to continue to use our established two-step budget neutrality methodology.

To calculate the proposed normalization factor for FY 2022, we are proposing to group applicable LTCH cases using the proposed FY 2022 Version 39 GROUPER, and apply a budget neutrality adjustment in determining the FY 2022 MS–LTC–DRG relative weights.

In this proposed rule, to ensure budget neutrality in the update to the MS–LTC–DRG classifications and relative weights under § 412.517(b), we are proposing to continue to use our established two-step budget neutrality methodology.

To calculate the proposed budget neutrality adjustment factor, we simulated estimated total FY 2022 LTCH PPS standard Federal payment rate payments for applicable LTCH cases using the proposed FY 2022 normalized relative weights and proposed GROUPER Version 39; simulated estimated total FY 2022 LTCH PPS standard Federal payment rate payments for applicable LTCH cases using the FY 2021 MS–LTC–DRG relative weights and the FY 2021 GROUPER Version 38; and calculated the ratio of these estimated total payments by dividing the simulated estimated total LTCH PPS standard Federal payment rate payments using the FY 2021 MS–LTC–DRG relative weights and the GROUPER Version 38 by the simulated estimated total LTCH PPS standard Federal payment rate payments using the proposed FY 2022 MS–LTC–DRG relative weights and the proposed GROUPER Version 39. The resulting ratio is the proposed budget neutrality adjustment factor. The calculation of the proposed budget neutrality factor involves the proposed relative weights for the LTCH cases used in the payment simulation, which includes any cases grouped to low-volume proposed MS–LTC–DRGs, and generally does not include payments for cases grouped to a proposed MS–LTC–DRG with no applicable LTCH cases. Occasionally, a few LTCH cases (that is, those with a covered length of stay of 7 days or less), which are removed from the proposed relative weight calculation in step 2 that are grouped to a proposed MS–LTC–DRG with no applicable LTCH cases are included in the payment simulations used to calculate the proposed budget neutrality factor. However, the number and payment amount of such cases have a negligible impact on the proposed budget neutrality factor calculation.

In this proposed rule, to ensure budget neutrality in the update to the MS–LTC–DRG classifications and relative weights under § 412.517(b), we are proposing to continue to use our established two-step budget neutrality methodology. Therefore, in this proposed rule, in the first step of our MS–LTC–DRG budget neutrality methodology, for FY 2022, we are proposing to calculate and apply a proposed normalization factor to the recalibrated proposed relative weights (the result of Steps 1 through 6 discussed previously) to ensure that estimated payments are not affected by changes in the composition of case types or the proposed changes to the classification system. That is, the proposed normalization adjustment is intended to ensure that the recalibration of the proposed MS–LTC–DRG relative weights (that is, the process itself) neither increases nor decreases the average case-mix index.

To calculate the proposed normalization factor for FY 2022 (the first step of our budget neutrality methodology), we used the following three steps:

1. Use the applicable LTCH cases from the best available data (that is, LTCH discharges from the FY 2019 MedPAR file) and group them using the proposed FY 2022 GROUPER (that is, proposed Version 39 for FY 2022) and the recalibrated proposed FY 2022 MS–LTC–DRG relative weights (determined in Steps 1 through 6 discussed previously) to calculate the average case-mix index; (1.b) group the same applicable LTCH cases (as are used in Step 1.a) using the FY 2021 GROUPER (Version 38) and FY 2021 MS–LTC–DRG relative weights and calculate the average case-mix index; and (1.c) compute the ratio of these average case-mix indexes by dividing the average CMI for FY 2021 (determined in Step 1.b) by the average case-mix index for FY 2022 (determined in Step 1.a). As a result, in determining the proposed MS–LTC–DRG relative weights for FY 2022, each recalibrated proposed MS–LTC–DRG relative weight is multiplied by the proposed normalization factor of 1.25811 (determined in Step 1.c.) in the first step of the proposed budget neutrality methodology, which produces “normalized relative weights.”

In the second step of our MS–LTC–DRG budget neutrality methodology, we calculated a second budget neutrality factor consisting of the ratio of estimated aggregate FY 2022 LTCH PPS standard Federal payment rate payments for applicable LTCH cases (the sum of all calculations under Step 1.b stated previously) before reclassification and recalibration to estimated aggregate payments for FY 2022 LTCH PPS standard Federal payment rate payments for applicable LTCH cases after reclassification and recalibration (that is, the sum of all calculations under Step 1.a stated previously).

That is, for this proposed rule, for FY 2022, under the second step of the budget neutrality methodology, we are proposing to determine the proposed budget neutrality adjustment factor using the following three steps:

(a) Simulate estimated total FY 2022 LTCH PPS standard Federal payment rate payments for applicable LTCH cases using the proposed normalized relative weights for FY 2022 and proposed GROUPER Version 39 (as described previously); (2.b) simulate estimated total FY 2022 LTCH PPS standard Federal payment rate payments for applicable LTCH cases using the FY 2021 IPPS/LTCH PPS final rule available on the internet, as described in section VI. of the Addendum of that final rule; and (2.c)
calculate the ratio of these estimated total payments by dividing the value determined in Step 2.b. by the value determined in Step 2.a. In determining the proposed FY 2022 MS–LTC–DRG relative weights, each proposed normalized relative weight is then multiplied by a budget neutrality factor of 1.000275 (the value determined in Step 2.c.) in the second step of the budget neutrality methodology to achieve the budget neutrality requirement at § 412.517(b).

Accordingly, in determining the proposed FY 2022 MS–LTC–DRG relative weights in this proposed rule, consistent with our existing methodology, we are proposing to apply a normalization factor of 1.25811 and a budget neutrality factor of 1.000275.

### Table 11, which is listed in section VI. of the Addendum to this proposed rule and is available via the internet on the CMS website, lists the proposed MS–LTC–DRGs and their respective proposed relative weights, geometric mean length of stay, and five-sixths of the geometric mean length of stay (used to identify SSO cases under § 412.529(a)) for FY 2022.

### C. Proposed Changes to the LTCH PPS Payment Rates and Other Proposed Changes to the LTCH PPS for FY 2022

#### 1. Overview of Development of the Proposed LTCH PPS Standard Federal Payment Rates

The basic methodology for determining LTCH PPS standard Federal payment rates is currently set forth at 42 CFR 412.515 through 412.533 and 412.535. In this section, we discuss the factors that we are proposing to use to update the LTCH PPS standard Federal payment rate for FY 2022, that is, effective for LTCH discharges occurring on or after October 1, 2021 through September 30, 2022. Under the dual rate LTCH PPS payment structure required by statute, beginning with discharges in cost reporting periods beginning in FY 2016, only LTCH discharges that meet the criteria for exclusion from the site neutral payment rate are paid based on the LTCH PPS standard Federal payment rate specified at 42 CFR 412.523. (For additional details on our finalized policies related to the dual rate LTCH PPS payment structure required by statute, we refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49601 through 49623)).

Prior to the implementation of the dual payment rate system in FY 2016, all LTCH discharges were paid similarly to LTCH discharges from the site neutral payment rate. That legacy payment rate was called the standard Federal rate. For details on the development of the initial standard Federal rate for FY 2003, we refer readers to the August 30, 2002 LTCH PPS final rule (67 FR 56027 through 56037). For subsequent updates to the standard Federal rate (FYs 2003 through 2015)/LTCH PPS standard Federal payment rate (FY 2016 through present) as implemented under 42 CFR 412.523(c)(3), we refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42445 through 42446).

In this FY 2022 IPPS/LTCH PPS proposed rule, we present our proposed policies related to the annual update to the LTCH PPS standard Federal payment rate FY 2022.

The proposed update to the LTCH PPS standard Federal payment rate for FY 2022 is presented in section V.A. of the Addendum to this proposed rule. The components of the proposed annual update to the LTCH PPS standard Federal payment rate for FY 2022 are discussed in this section, including the statutory reduction to the annual update for LTCHs that fail to submit quality reporting data for FY 2022 as required by the statute (as discussed in section VII.C.2.c. of the preamble of this proposed rule). We are also proposing to make an adjustment to the LTCH PPS standard Federal payment rate to account for the estimated effect of the changes to the area wage level for FY 2022 on estimated aggregate LTCH PPS payments, in accordance with 42 CFR 412.523(d)(4) (as discussed in section V.B. of the Addendum to this proposed rule). (We note that we are not making any proposals which would change the proposed FY 2022 LTCH PPS standard Federal payment rate that are based on the elimination of the 25-percent threshold policy because the permanent, one-time factor was proposed and adopted in the FY 2021 IPPS/LTCH PPS Final Rule for FY 2021 and subsequent years (85 FR 58907)).

#### 2. Proposed FY 2022 LTCH PPS Standard Federal Payment Rate Annual Market Basket Update

##### a. Overview

Historically, the Medicare program has used a market basket to account for input price increases in the services furnished by providers. The market basket used for the LTCH PPS includes both operating and capital related costs of LTCHs because the LTCH PPS uses a single payment rate for both operating and capital-related costs. We adopted the 2017-based LTCH market basket for use under the LTCH PPS beginning in FY 2021 (85 FR 58907 through 58909). For additional details on the historical development of the market basket used under the LTCH PPS, we refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53467 through 53476), and for a complete discussion of the LTCH market basket and a description of the methodologies used to determine the operating and capital-related portions of the 2017-based LTCH market basket, we refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58909 through 58926).

Section 3401(c) of the Affordable Care Act provides for certain adjustments to any annual update to the LTCH PPS standard Federal payment rate and refers to the timeframes associated with such adjustments as a “rate year.” We note that, because the annual update to the LTCH PPS policies, rates, and factors now occurs on October 1, we adopted the term “fiscal year” (FY) rather than “rate year” (RY) under the LTCH PPS beginning October 1, 2010, to conform with the standard definition of the Federal fiscal year (October 1 through September 30) used by other PPSs, such as the IPPS (75 FR 50396 through 50397). Although the language of sections 3004(a), 3401(c), 10319, and 1105(b) of the Affordable Care Act refers to years 2010 and thereafter under the LTCH PPS as “rate year,” consistent with our change in the terminology used under the LTCH PPS from “rate year” to “fiscal year,” for purposes of clarity, when discussing the annual update for the LTCH PPS standard Federal payment rate, including the provisions of the Affordable Care Act, we use “fiscal year” rather than “rate year” for 2011 and subsequent years.

##### b. Proposed Annual Update to the LTCH PPS Standard Federal Payment Rate for FY 2022

CMS has used an estimated market basket increase to update the LTCH PPS. As previously noted, we adopted the 2017-based LTCH market basket for use under the LTCH PPS beginning in FY 2021. The 2017-based LTCH market basket is primarily based on the Medicare cost report data submitted by LTCHs and, therefore, specifically reflects the cost structures of only LTCHs. (For additional details on the development of the 2017-based LTCH market basket, we refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58909 through 58926).)

In the FY 2021 IPPS/LTCH final rule, we finalized the price proxies for the 2017-based LTCH market basket. In that final rule, we established the use of the Moody’s AAA Corporate Bond Yield index as the price proxy for the Yor-profit Interest cost category (85 FR 58919). Effective for December 2020, the
Moody’s AAA Corporate Bond series is no longer available for use under license to IGI, the nationally-recognized economic and financial forecasting firm with which we contract to forecast the components of the market baskets and multifactor productivity adjustment (MFP). In this proposed rule, we are proposing to use the iBoxx AAA Corporate Bond Yield index instead of the Moody’s AAA Corporate Bond Yield index. We compared the iBoxx AAA Corporate Bond Yield index with the Moody’s AAA Corporate Bond Yield index and found that the average growth rates in the history of the two series are very similar. Over the historical time period of FY 2001 to FY 2020, the 4-quarter percent change moving average growth in the iBoxx series was approximately 0.1 percentage point higher, on average, than the Moody’s series. However, given the relatively small weight for this cost category, replacing the Moody’s series with the iBoxx series does not impact the historical top-line market basket increases when rounded to the nearest tenth of a percentage point over the past ten fiscal years (FY 2011 to FY 2020). Therefore, because the iBoxx AAA Corporate Bond Yield index captures the same technical concept as the current corporate bond proxy and tracks similarly to the current measure that is no longer available, we believe that using the iBoxx AAA Corporate Bond Yield index is technically appropriate to use in the 2017-based LTCH market basket.

We continue to believe that the 2017-based LTCH market basket appropriately reflects the cost structure of LTCHs for the reasons discussed when we adopted its use in the FY 2021 IPPS/LTCH PPS final rule. Therefore, in this proposed rule, we are proposing to use the 2017-based LTCH market basket to update the LTCH PPS standard Federal payment rate for FY 2022.

Section 1886(m)(3)(A) of the Act provides that, beginning in FY 2010, any annual update to the LTCH PPS standard Federal payment rate is reduced by the adjustments specified in clauses (i) and (ii) of subparagraph (A), as applicable. Clause (i) of section 1886(m)(3)(A) of the Act provides for a reduction, for FY 2012 and each subsequent rate year, by the productivity adjustment described in section 1886(b)(3)(B)(ix)(II) of the Act (that is, “the multifactor productivity (MFP) adjustment”). Clause (ii) of section 1886(m)(3)(A) of the Act provided for a reduction, for each of FYS 2010 through 2019, by the “other adjustment” described in section 1886(m)(4)(F) of the Act; therefore, it is not applicable for FY 2022.

Section 1886(m)(3)(B) of the Act provides that the application of paragraph (3) of section 1886(m) of the Act may result in the annual update being less than zero for a rate year, and may result in payment rates for a rate year being less than such payment rates for the preceding rate year.

c. Proposed Adjustment to the LTCH PPS Standard Federal Payment Rate Under the Long-Term Care Hospital Quality Reporting Program (LTCH QRP)

In accordance with section 1886(m)(5) of the Act, the Secretary established the Long-Term Care Hospital Quality Reporting Program (LTCH QRP). The reduction in the annual update to the LTCH PPS standard Federal payment rate for failure to report quality data under the LTCH QRP for FY 2014 and subsequent fiscal years is codified under 42 CFR 412.523(c)(4). The LTCH QRP, as required for FY 2012 and subsequent fiscal years by section 1886(m)(5)(A)(i) of the Act, applies a 2.0 percentage point reduction to any update under 42 CFR 412.523(c)(3) for an LTCH that does not submit quality reporting data to the Secretary in accordance with section 1886(m)(5)(C) of the Act with respect to such a year (that is, in the form and manner and at the time specified by the Secretary under the LTCH QRP) (42 CFR 412.523(c)(4)(iii)). Section 1886(m)(5)(A)(ii) of the Act provides that the application of the 2.0 percentage points reduction may result in an annual update that is less than 0.0 for a year, and may result in LTCH PPS payment rates for a year being less than such LTCH PPS payment rates for the preceding year. Furthermore, section 1886(m)(5)(B) of the Act specifies that the 2.0 percentage points reduction is applied in a noncumulative manner, such that any reduction made under section 1886(m)(5)(A) of the Act shall apply only with respect to the year involved, and shall not be taken into account in computing the LTCH PPS payment amount for a subsequent year. These requirements are codified in the regulations at 42 CFR 412.523(c)(4). (For additional information on the history of the LTCH QRP, including the statutory authority and the selected measures, we refer readers to section VIII.C of the preamble of this proposed rule.)

d. Proposed Annual Market Basket Update Under the LTCH PPS for FY 2022

Consistent with our historical practice, we estimate the market basket increase and the MFP adjustment based on IGI’s forecast using the most recent available data. Based on IGI’s fourth quarter 2020 forecast, the FY 2022 full market basket estimate for the LTCH PPS using the 2017-based LTCH market basket is 2.4 percent. The current estimate of the MFP adjustment for FY 2022 based on IGI’s fourth quarter 2020 forecast is 0.2 percent.

For FY 2022, section 1886(m)(3)(A)(i) of the Act requires that any annual update to the LTCH PPS standard Federal payment rate be reduced by the productivity adjustment, that is, the MFP adjustment as previously noted, described in section 1886(b)(3)(B)(xi)(II) of the Act. Consistent with the statute, we are proposing to reduce the full estimated FY 2022 market basket increase by the FY 2022 MFP adjustment. To determine the proposed market basket increase for LTCHs for FY 2022, as reduced by the proposed MFP adjustment, consistent with our established methodology, we are subtracting the proposed FY 2022 MFP adjustment from the estimated FY 2022 market basket increase. (For additional details on our established methodology for adjusting the market basket increase by the MFP adjustment, we refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51771).)

For FY 2022, section 1886(m)(5) of the Act requires that, for LTCHs that do not submit quality reporting data as required under the LTCH QRP, any annual update to an LTCH PPS standard Federal payment rate, after application of the adjustments required by section 1886(m)(3) of the Act, shall be further reduced by 2.0 percentage points. Therefore, for LTCHs that fail to submit quality reporting data under the LTCH QRP, the proposed 2.4 percent update to the LTCH PPS standard Federal payment rate for FY 2022 would be reduced by the 0.2 percentage point MFP adjustment as required under section 1886(m)(3)(A)(i) of the Act and the additional 2.0 percentage points reduction required by section 1886(m)(5) of the Act.

In this FY 2022 IPPS/LTCH PPS proposed rule, in accordance with the statute, we are proposing to reduce the proposed FY 2022 full market basket estimate of 2.4 percent (based on IGI’s fourth quarter 2020 forecast of the 2017-based LTCH market basket) by the proposed FY 2022 MFP adjustment of 0.2 percentage point (based on IGI’s fourth quarter 2020 forecast). Therefore, under the authority of section 123 of the BBRA as amended by section 307(b) of the BIPA, consistent with 42 CFR 412.523(c)(5)(xvii), we are proposing to establish an annual update to the LTCH PPS standard Federal payment rate for FY 2022 of 2.2
percent (that is, the most recent estimate of the LTCH PPS market basket increase of 2.4 percent less the MFP adjustment of 0.2 percentage point). For LTCHs that fail to submit quality reporting data under the LTCH QRP, under 42 CFR 412.523(c)(3)(xvii) in conjunction with 42 CFR 412.523(c)(4), we are proposing to further reduce the annual update to the LTCH PPS standard Federal payment rate by 2.0 percentage points, in accordance with section 1866(m)(5) of the Act. Accordingly, we are proposing to establish an annual update to the LTCH PPS standard Federal payment rate of 0.2 percent (that is, 2.2 percent minus 2.0 percentage points) for FY 2022 for LTCHs that fail to submit quality reporting data as required under the LTCH QRP. Consistent with our historical practice, we are proposing to use a more recent estimate of the market basket and the MFP adjustment, if appropriate, in the final rule to establish an annual update to the LTCH PPS standard Federal payment rate for FY 2022. (We note that, consistent with historical practice, we are also proposing to adjust the FY 2022 LTCH PPS standard Federal payment rate by an area wage level budget neutrality factor in accordance with 42 CFR 412.523(d)(4) (as discussed in section V.B.5. of the Addendum to this proposed rule).

IX. Quality Data Reporting Requirements for Specific Providers and Suppliers

In this section of the preamble of this proposed rule, we are seeking public comment on two focus areas, and are also proposing changes to the Medicare quality reporting systems:

• In section IX.A., advancing to digital quality measurement and the use of Fast Healthcare Interoperability Resources (FHIR) in hospital quality programs;
• In section IX.B., closing the health equity gap in CMS hospital quality programs;
• In section IX.C., the Hospital IQR Program;
• In section IX.D., the PCHQR Program; and
• In section IX.E., the LTCH QRP.

In addition, in section IX.F. of the preamble of this proposed rule, we are proposing changes to the Medicare Promoting Interoperability Program (previously known as the Medicare and Medicaid EHR Incentive Programs) for eligible hospitals and critical access hospitals (CAHs).

A. Advancing to Digital Quality Measurement and the Use of Fast Healthcare Interoperability Resources (FHIR) in Hospital Quality Programs—Request for Information

We aim to move fully to digital quality measurement in CMS quality reporting and value-based purchasing programs by 2025. As part of this modernization of our quality measurement enterprise, we are issuing this request for information (RFI). The purpose of this RFI is to gather broad public input solely for planning purposes for our transition to digital quality measurement. Any updates to specific program requirements related to providing data for quality measurement and reporting provisions would be addressed through future rulemaking, as necessary. This RFI contains five parts:

• Background. This part provides information on our quality measurement programs and our goal to move fully to digital quality measurement by 2025. This part also provides a summary of recent HHS policy developments that are advancing interoperability and could support our move towards full digital quality measurement.
• Definition of Digital Quality Measures (dQMs). This part provides a potential definition for dQMs. Specific requests for input are included in the section.
• Use of Fast Healthcare Interoperability Resources (FHIR®) for current electronic clinical quality measures (eCQMs). This part provides information on current activities underway to align CMS eCQMs with the FHIR standard and support quality measurement via application programming interfaces (APIs), and contrasts this approach to current eCQM standards and practice.
• Changes Under Consideration to Advance Digital Quality Measurement: Actions in Four Areas to Transition to Digital Quality Measures by 2025. This part introduces four possible steps that would enable transformation of CMS’ quality measurement enterprise to be fully digital by 2025. Specific requests for input are included in the section.
• Solicitation of Comments. This part lists all requests for input included in the sections of this RFI.

1. Background

As required by law, we implement quality measurement and value-based purchasing programs across a broad range of inpatient acute care, outpatient, and post-acute care (PAC) settings, consistent with our mission to improve the quality of health care for Americans through measurement, transparency, and increasingly, value-based purchasing. These quality programs are foundational for incentivizing value-based care, contributing to improvements in health care, enhancing patient outcomes, and informing consumer choice. In October 2017, we launched the Meaningful Measures Framework. This framework for quality measurement captures our vision to better address health care quality priorities and gaps, including emphasizing digital quality measurement, reducing measurement burden, and promoting patient perspectives, while also focusing on modernization and innovation. The scope of the Meaningful Measures Framework evolves as the health care environment continues to change.966 Consistent with the Meaningful Measures Framework, we aim to move fully to digital quality measurement by 2025. We acknowledge providers within the various care and practice settings covered by our quality programs may be at different stages of readiness, and therefore, the timeline for achieving full digital quality measurement across our quality reporting programs may vary.

We also continue to evolve the Medicare Promoting Interoperability Program’s focus on the use of certified electronic health record (EHR) technology, from an initial focus on electronic data capture to enhancing information exchange and expanding quality measurement (83 FR 41634). However, reporting data for quality measurement via EHRs remains burdensome, and our current approach to quality measurement does not readily incorporate emerging data sources such as patient-reported outcomes (PRO) and patient-generated health data (PGHD).967 There is a need to streamline our approach to data collection, calculation, and reporting to fully leverage clinical and patient-centered information for measurement, improvement, and learning.

Additionally, advancements in technical standards and associated regulatory initiatives to improve interoperability of healthcare data are creating an opportunity to significantly improve our quality measurement systems. In May 2020, we finalized interoperability requirements in the CMS Interoperability and Patient Access final rule (85 FR 25510) to support beneficiary access to data held by

967 What are patient generated health data: https://www.healthit.gov/topic/otherhot-topics/what-are-patient-generated-health-data.
certain payers. At the same time, the Office of the National Coordinator for Health Information Technology (ONC) finalized policies in the ONC 21st Century Cures Act final rule (85 FR 25642) to advance the interoperability of health information technology (IT) as defined in section 4003 of the Cures Act, including the “complete access, exchange, and use of all electronically accessible health information.” Closely working with ONC, we collaboratively identified Health Level 7 (HL7®) FHIR Release 4.0.1 as the standard to support Application Programming Interface (API) policies in both rules. ONC, on behalf of HHS, adopted the HL7 FHIR Release 4.0.1 for APIs and related implementation specifications at 45 CFR 170.215. We believe the FHIR standard has the potential to be a more efficient and modular standard to enable APIs. We also believe this standard enables collaboration and information sharing, which is essential for delivering high-quality care and better outcomes at a lower cost. By aligning technology requirements for payers, health care providers, and health IT developers HHS can advance an interoperable health IT infrastructure that ensures providers and patients have access to health data when and where it is needed.

In the ONC 21st Century Cures Act final rule, ONC adopted a “Standardized API for Patient and Population Services” certification criterion for health IT that requires the use of FHIR Release 4 and several implementation specifications. Health IT certified to this criterion will offer single patient and multiple patient services that can be accessed by third-party applications (85 FR 25742).968 The ONC 21st Century Cures Act final rule also requires health IT developers to update their certified health IT to support the United States Core Data for Interoperability (USCDI) standard.969 The scope of patient data identified in the USCDI and the data standards that support this data set are expected to evolve over time, starting with data specified in Version 1 of the USCDI. In November 2020, ONC issued an interim final rule with comment period extending the date when health IT developers must make technology meeting updated certification criteria available under the ONC Health IT Certification Program until December 31, 2022 (85 FR 70064).970

The CMS Interoperability and Patient Access final rule (85 FR 25510) and program policies build on the ONC 21st Century Cures Act final rule (85 FR 25642). The CMS Interoperability and Patient Access final rule and policies require certain payers (for example, Medicare Advantage organizations, Medicaid and CHIP Fee-for-Service programs, Medicaid managed care plans, CHIP managed care entities, and issuers of certain Qualified Health Plan (QHP) on the Federally-facilitated Exchanges [FFEs]) to implement and maintain a standards-based Patient Access API using HL7 FHIR Release 4.0.1 to make available certain data to their enrollees and beneficiaries (called “patients” in the CMS interoperability rule). These certain data include data concerning claims and encounters, with the intent to ensure access to their own health care information through third-party software applications. The rule also established new Conditions of Participation for Medicare and Medicaid participating hospitals and critical access hospitals (CAHs), requiring them to send electronic notifications to another healthcare facility or community provider or practitioner when a patient is admitted, discharged, or transferred (85 FR 25603). In the CY 2021 Physician Fee Schedule (PFS) final rule (85 FR 84472), we finalized a policy to align the certified EHR technology required for use in the Promoting Interoperability Programs and the MIPS Promoting Interoperability performance category with the updates to health IT certification criteria finalized in the ONC 21st Century Cures Act final rule. Under this policy, MIPS eligible clinicians, and eligible hospitals and CAHs participating in the Promoting Interoperability Programs, must use technology meeting the updated certification criteria for performance and reporting periods beginning in 2023 (85 FR 84825).

The use of APIs can also reduce long-standing barriers to quality measurement. Currently, health IT developers are required to implement individual measure specifications within their health IT products. The health IT developer must also accommodate how that product connects with the unique variety of systems within a specific care setting.971 This may be further complicated by systems that integrate a wide range of data schemas. This process is burdensome and costly, and it is difficult to reliably obtain high quality data across systems. As health IT developers map their health IT data to the FHIR standard and related implementation specifications, APIs can enable these structured data to be easily accessible for quality measurement or other use cases, such as care coordination, clinical decision support, and supporting patient access.

We believe the emerging data standardization and interoperability enabled by APIs will support the transition to full digital quality measurement by 2025, and are committed to exploring and seeking input on potential solutions for the transition to digital quality measurement as described in this RFI.

2. Definition of Digital Quality Measures

In this section we seek to refine the definition of digital quality measures (dQMs) to further operationalize our objective of fully transitioning to dQMs by 2025. We previously noted dQMs use “sources of health information that are captured and can be transmitted electronically and via interoperable systems.” (85 FR 84845) In this RFI, we seek input on future elaboration that would define a dQM as a software that processes digital data to produce a measure score or measure scores. Data sources for dQMs may include administrative systems, electronically submitted clinical assessment data, case management systems, EHRs, instruments (for example, medical devices and wearable devices), patient portals or applications (for example, for collection of patient-generated health data), health information exchanges (HIEs) or registries, and other sources. We also note that dQMs are intended to improve the patient experience including quality of care, improve the health of populations, and/or reduce costs.

We discuss one potential approach to developing dQM software in section IX.A.4.b. of the preamble of this proposed rule. In this section, we are seeking comment on the potential definition of dQMs in this RFI.

We also seek feedback on how leveraging advances in technology (for


example, FHIR APIs to access and electronically transmit interoperable data for dQMs could reinforce other activities to support quality measurement and improvement (for example, the aggregation of data across multiple data sources, rapid-cycle feedback, and alignment of programmatic requirements).

The transition to dQMs relies on advances in data standardization and interoperability. As providers and payers work to implement the required advances in interoperability over the next several years, we will continue to support reporting of eCQMs through CMS quality reporting programs and through the Promoting Interoperability programs. These fully digital measures continue to be important drivers of interoperability advancement and learning. As discussed in the next section, CMS is currently re-specifying and testing these measures to use FHIR rather than the currently adopted Quality Data Model (QDM) in anticipation of the wider use of FHIR standards. CMS intends to apply significant components of the output of this work, such as the re-specified measure logic and the learning done through measure testing with FHIR APIs, to define and build future dQMs that take advantage of the expansion of standardized, interoperable data.

3. Use of FHIR for Current eCQMs

Since we adopted eCQMs in our hospital and clinician quality programs, we have heard from stakeholders about the technological challenges, burden, and related costs of reporting eCQMs data. The CMS eCQM Strategy Project engaged with stakeholders through site visits and listening sessions with health systems and provider organizations to learn about their experiences. This stakeholder feedback identified recommendations to improve processes related to alignment; development; implementation and reporting; certification; and communication, education, and outreach. Over the past two years, we have focused on opportunities to streamline and modernize quality data collection and reporting processes, such as exploring FHIR® (http://hl7.org/fhir) as a framework for measure structure and data submission for quality reporting programs, specifically for eCQMs. FHIR is a free and open source standards framework (in both commercial and government settings) created by Health Level Seven International (HL7®) that establishes a common language and process for all health information technology. FHIR allows systems to communicate and information to be shared seamlessly, with a lower burden for hospitals, providers, clinicians, vendors, and quality measurement stakeholders. Specifically, for quality reporting, FHIR enables representing the data in eCQMs as well as provides a structure for eCQMs and reporting, using FHIR as the standard for all. Whereas today, multiple standards being used to report eCQMs is challenging and burdensome.

We are working to convert current eCQMs to the FHIR standard. We are currently testing the exchange of data elements represented in FHIR to CMS through ongoing HL7 Connectathons and integrated system testing by using and refining implementation guides. Submitting data through FHIR APIs has the potential to improve data exchange by providing consistent security, performance, scalability, and structure to all users. In addition, development of FHIR APIs could decrease provider burden by automating more of the measure data collection process. We continue to explore and expand potential applications of the FHIR standard and testing with eCQM use cases, and we are strongly considering a transition to FHIR-based quality reporting with the use of the FHIR standard for eCQMs in quality and value-based reporting programs. As we move to an all-dQM format for quality programs, we are depending on testing results and community readiness to improve interoperability, reduce burden, and facilitate better patient care. We will continue to consider how to leverage the interoperability advantages offered by the FHIR standards and API-based data submission, including digital quality measurement.

4. Changes Under Consideration To Advance Digital Quality Measurement: Potential Actions in Four Areas To Transition to Digital Quality Measures by 2025

Building on the advances in interoperability and learning from testing of FHIR-converted eCQMs, we aim to move fully to dQMs, originating from sources of health information that are captured and can be transmitted electronically via interoperable systems, by 2025.

To enable this transformation, we are considering further modernization of the quality measurement enterprise in four major ways: (1) Leverage and advance standards for digital data and obtain all EHR data required for quality measures via provider FHIR-based APIs; (2) redesign our quality measures to be self-contained tools; (3) better support data aggregation; and (4) work to align measure requirements across our reporting programs, other Federal programs and agencies, and the private sector where appropriate.

These changes would enable us to collect and utilize more timely, actionable, and standardized data from diverse sources and care settings to improve the scope and quality of data used in quality reporting and payment programs, reduce quality reporting burden, and make results available to stakeholders in a rapid-cycle fashion. Data collection and reporting efforts would become more efficient, supported by advances in interoperability and data standardization. Aggregation of data from multiple sources would allow assessments of costs and outcomes to be measured across multiple care settings for an individual patient or clinical conditions. We believe that aggregating data for measurement can incorporate a more holistic assessment of an individual’s health and health care and produce the rich set of data needed to enable patients and caregivers to make informed decisions by combining data from multiple sources (for example, patient reported data, EHR data, and claims data) for measurement.

Perhaps most importantly, these steps would help us deliver on the full promise of quality measurement and drive us toward a learning health system that transforms healthcare quality, safety, and coordination and effectively measures and achieves value-based care. The shift from a static to a learning health system hinges on the interoperability of healthcare data, and the use of standardized data. dQMs would leverage this interoperability to deliver on the promise of a learning health system wherein standards-based data sharing and analysis, rapid-cycle feedback, and quality measurement and incentives are aligned for continuous improvement in patient-centered care. Similarly, standardized, interoperable data used for measurement can also be used for other use cases, such as clinical decision support, care coordination and care decision support, which impacts health care and care quality.

We are requesting comments on four potential future actions that would enable transformation to a fully digital quality measurement enterprise by 2025.

a. Leveraging and Advancing Standards for Digital Data and Obtaining All EHR Data Required for Quality Measures via Provider FHIR-based APIs

We are considering targeting the data required for our quality measures that
utilize EHR data to be data retrieved via FHIR-based APIs based on standardized, interoperable data. Utilizing standardized data for EHR-based measurement (based on FHIR and associated implementation guides) and aligning where possible with interoperability requirements can eliminate the data collection burden providers currently experience with required chart-abstracted quality measures and reduce the burden of reporting digital quality measure results. We can fully leverage this advance to adapt eCQMs and expand to other dQMs through the adoption of interoperable standards across other digital data sources. We are considering methods and approaches to leverage the interoperability data requirements for APIs in certified health IT set by the ONC 21st Century Cures Act final rule to support modernization of CMS quality measure reporting. As discussed previously, these requirements will be included in certified technology in future years (85 FR 84825) including availability of data included in the USCDI via standards-based APIs, and CMS will require clinicians and hospitals participating in MIPS and the Promoting Interoperability Programs, respectively, to transition to use of certified technology updated consistent with the 2015 Cures Edition Update (85 FR 84825).

Digital data used for measurement could also expand beyond data captured in traditional clinical settings, administrative claims data, and EHRs. Many important data sources are not currently captured digitally, such as survey and PGHD. We intend to work to innovate and broaden the digital data used across the quality measurement enterprise beyond the clinical EHR and administrative claims. Agreed upon standards for these data, and associated implementation guides will be important for interoperability and quality measurement. We will consider developing clear guidelines and requirements for these data digital that align with interoperability requirements, for example, requirements for expressing data in standards, exposing data via standards-based APIs, and incentivizing technologies that innovate data capture and interoperability.

High quality data are also essential for reliable and valid measurement. Hence, in implementing the shift to collect all clinical EHR data via FHIR-based APIs, we would support efforts to strengthen and test the quality of the data obtained through FHIR-based APIs for quality measurement. We currently conduct audits of electronic data submitted to the Hospital IQR Program with functions including checks for data completeness and data accuracy, confirmation of proper data formatting, alignment with standards, and appropriate data cleaning (82 FR 33898 through 38402). These functions would continue and be applied to dQMs and further expanded to automate the manual validation of the data compared to the original data source (for example, the medical record) where possible. Analytic advancements such as natural language processing, big data analytics, and artificial intelligence, can support this evolution. These techniques can be applied to validating observed patterns in data and inferences or conclusions drawn from associations, as data are received, to ensure high quality data are used for measurement.

We are seeking feedback on the goal of aligning data needed for quality measurement with interoperability requirements and the strengths and limitations of this approach. We are also seeking feedback on the importance of and approaches to supporting inclusion of PGHD and other currently non-standardized data. We also welcome comment on approaches for testing data quality and validity.

b. Redesigning Quality Measures To Be Self-Contained Tools

We are considering approaches for including quality measures that take advantage of standardized data and interoperability requirements that have expanded flexibility and functionality compared to CMS’ current eCQMs. We are considering defining and developing dQM software as end-to-end measure calculation solutions that retrieve data from primarily FHIR-based resources maintained by providers, payers, CMS, and others; calculate measure score(s), and produce reports. In general, we believe to optimize the use of standardized and interoperable data, the software solution for dQMs should do the following:

- Have the flexibility to support calculation of single or multiple quality measure(s).
- Perform three functions—
  ++ Obtain data via automated queries from a broad set of digital data sources (initially from EHRs, and in the future from claims, PRO, and PGHD);
  ++ Calculate the measure score according to measure logic; and
  ++ Generate measure score report(s).
- Be compatible with any data source systems that implement standard interoperability requirements.
- Exist separately from digital data source(s) and respect the limitations of the functionality of those data sources.
- Be tested and updated independently of the data source systems.
- Operate in accordance with health information protection requirements under applicable laws and comply with governance functions for health information exchange.
- Have the flexibility to be deployed by individual health systems, health IT vendors, data aggregators, and health plans; and/or run by CMS depending on the program and measure needs and specifications.
- Be designed to enable easy installation for supplemental uses by medical professionals and other non-technical end-users, such as local calculation of quality measure scores or quality improvement.

We seek comment on these suggested functionalities and other additional functionalities that quality measure tools should ideally have particularly in the context of the possible expanding availability of standardized and interoperable data (for example, standardized EHR data available via FHIR-based APIs).

We are also interested whether and how this more open, agile strategy may facilitate broader engagement in quality measure development, the use of tools developed for measurement for local quality improvement, and/or the application of quality tools for related purposes such as public health or research.

c. Building a Pathway to Data Aggregation in Support of Quality Measurement

Using multiple sources of collected data to inform measurement would reduce data fragmentation (or, different pieces of data regarding a single patient stored in many different places). Additionally, we are considering expanding and establishing policies and processes for data aggregation and measure calculation by third-party aggregators that include, but are not limited to, HIEs and clinical registries. Qualified Clinical Data Registries and Qualified Registries that report quality measures for eligible clinicians in the Merit-based Incentive Payment System...
practices and priorities (for example, PROs, disparities, and care coordination), and track with the transformation of data collection, alignment with health IT module updates including capabilities and standards adopted by ONC (for example, standards to enable APIs). This coordination would build on the principles outlined in HHS’ National Health Quality Roadmap.\footnote{Department of Health and Human Services, National Health Quality Roadmap (May 2020). Available at: https://www.hhs.gov/sites/default/files/national-health-quality-roadmap.pdf/} It would focus on the quality domains of safety, timeliness, efficiency, effectiveness, equity, and patient-centeredness. It would leverage several existing Federal and public-private efforts including our Meaningful Measures 2.0 Framework; the Federal Electronic Health Record Modernization (Department of Defense and Veterans Affairs [DoD/VA]); the Agency for Healthcare Research and Quality’s Clinical Decision Support Initiative; the Centers for Disease Control and Prevention’s Adapting Clinical Guidelines for the Digital Age initiative; Core Quality Measure Collaborative, which convenes stakeholders from America’s Health Insurance Plans (AHIP), CMS, National Quality Forum (NQF), provider organizations, private payers, and consumers and develops consensus on quality measures for provider specialties; and the NQF-convened Measure Applications Partnership (MAP), which recommends measures for use in public payment and reporting programs. We would coordinate with HL7’s ongoing work to advance FHIR resources in critical areas to support patient care and measurement such as social determinants of health. Through this coordination, we would identify which existing measures could be used or evolved to be used as dQMs, in recognition of current healthcare practice and priorities.

This multi-stakeholder, joint Federal, State, and industry effort, made possible and enabled by the pending advances towards true interoperability, would yield a significantly improved quality measurement enterprise. The success of the qQM portfolio would be enhanced by the degree to which the measures achieve our programmatic requirements for measures as well as the requirements of other agencies and payers.

We seek feedback on the following as described in section IX.A.3. of the preamble of this proposed rule:

++ Would access to near real-time quality measure scores benefit your practice?
++ What parts of the current CMS QRDA IGs cause the most burden?
++ What could we include in a CMS FHIR Reporting IG to reduce burden on providers and vendors?
++ Changes Under Consideration to Advance Digital Quality Measurement: Actions in Four Areas to Transition to Digital Quality Measures by 2025.
++ We are seeking feedback on the following as described in section IX.A.4.a. of the preamble of this proposed rule:
— Do you agree with the goal of aligning data needed for quality measurement with interoperability requirements? What are the strengths and limitations of this approach? Are there specific FHIR Implementation Guides suggested for consideration?
— How important is a data standardization approach that also supports inclusion of PGHD and other currently non-standardized data?
— What are possible approaches for testing data quality and validity?
++ We are seeking feedback on the following as described in section IX.A.4.b. of the preamble of this proposed rule:
— What functionalities, described in Section (4)(b) or others, should quality measurement tools ideally have in the context of the pending availability of standardized and interoperable data (for
example, standardized EHR data available via FHIR-based APIs?

— How would this more open, agile strategy for end-to-end measure calculation facilitate broader engagement in quality measure development, the use of tools developed for measurement for local quality improvement, and/or the application of quality tools for related purposes such as public health or research?

++ We seek feedback on the following as described in section IX.A.4.c. of the preamble of this proposed rule:

— Do you have feedback on policy considerations for aggregation of data from multiple sources being used to inform measurement?

— Do you have feedback on the role data aggregators can and should play in CMS quality measure reporting in collaboration with providers? How can CMS best facilitate and enable aggregation?

++ We seek feedback on the following as described in section IX.A.4.d. of the preamble of this proposed rule:

— What are initial priority areas for the dQM portfolio given evolving interoperability requirements (for example, measurement areas, measure requirements, tools)?

— We also seek to identify opportunities to collaborate with other Federal agencies, states, and the private sector to adopt standards and technology-driven solutions to address our quality measurement priorities and across sectors.

Commenters should consider provisions in the CMS Interoperability and Patient Access final rule (85 FR 25510), CMS CY 2021 PFS final rule (85 FR 84472), and the ONC 21st Century Cures Act final rule (85 FR 25642).

We plan to continue working with other agencies and stakeholders to coordinate and to inform any potential transition to dQMs by 2025. While we will not be responding to specific comments submitted in response to this Request for Information in the FY 2022 IPPS/LTC PPS final rule, we will actively consider all input as we develop future regulatory proposals or future subregulatory policy guidance. Any updates to specific program requirements related to quality measurement and reporting provisions would be addressed through separate and future notice-and-comment rulemaking, as necessary.

B. Closing the Health Equity Gap in CMS Hospital Quality Programs—Request for Information

Persistent inequities in health care outcomes exist in the United States, including among Medicare patients. In recognition of persistent health disparities and the importance of closing the health equity gap, we request information on revising several related CMS programs to make reporting of health disparities based on social risk factors and race and ethnicity more comprehensive and actionable for hospitals, providers, and patients. The following is part of an ongoing effort across CMS to evaluate appropriate initiatives to reduce health disparities.

Feedback will be used to inform the creation of a future, comprehensive, RFI focused on closing the health equity gap in CMS programs and policies. This RFI contains four parts:

• Background. This section provides information describing our commitment to health equity, and existing initiatives with an emphasis on reducing health disparities.

• Current CMS Disparity Methods. This section describes the methods, measures, and indicators of social risk currently used with the CMS Disparity Methods.

• Future potential stratification of quality measure results by race and ethnicity. This section describes three potential future expansions of the CMS Disparity Methods, including (a) Future potential stratification of quality measure results by race and ethnicity, (b) Improving Demographic Data Collection, and (c) Potential Creation of a Hospital Equity Score to Synthesize Results Across Multiple Social Risk Factors.

• Solicitation of public comment. This section specifies 10 requests for feedback on the topics listed previously. We look forward to receiving feedback on these topics and note for readers that responses to the RFI will not directly impact payment decisions. We also note our intention for an additional RFI or rulemaking on this topic in the future.

1. Background

Significant and persistent inequities in health care outcomes exist in the United States. Belonging to a racial or ethnic minority group; living with a disability; being a member of the lesbian, gay, bisexual, transgender, and queer (LGBTQ+) community; living in a rural area; or being near or below the poverty level, is often associated with worse health outcomes.9757976 977 978 979 980 981 982 Such disparities in health outcomes are the result of number of factors, but importantly for CMS programs, although not the sole determinant, poor access and provision of lower quality health care contribute to health disparities. For instance, numerous studies have shown that among Medicare beneficiaries, racial and ethnic minority individuals often receive lower quality of care, report lower experiences of care, and experience more frequent hospital readmissions and procedural complications.983984 985 986 987 988 Readmission rates for common conditions in the Hospital Readmissions Reduction Program are higher for Black


981 www.cdc.gov/nchs/nvss/mortnat/volumes/70 מסויםישתעת/14623 ./mmn700521.htm.
Medicare beneficiaries and higher for Hispanic Medicare beneficiaries with Congestive Heart Failure and Acute Myocardial Infarction. Studies have also shown that African Americans are significantly more likely than White Americans to die prematurely from heart disease and stroke. The COVID–19 pandemic has further illustrated many of these longstanding health inequities with higher rates of infection, hospitalization, and mortality among Black, Latino, and Indigenous and Native American persons. As noted by the Centers for Disease Control “long-standing systemic health and social inequities have put many people from racial and ethnic minority groups at increased risk of getting sick and dying from COVID–19.” One important strategy for addressing these important inequities is improving data collection to allow for better measurement and reporting on equity across our programs and policies. We are committed to achieving equity in health outcomes for our beneficiaries by supporting providers in quality improvement activities to reduce health inequities, enabling them to make more informed decisions, and promoting provider accountability for health care disparities. For the purposes of this rule, we are using a definition of equity established in Executive Order 13985, issued on January 25, 2021, as “the consistent and systematic fair, just, and impartial treatment of all individuals, including individuals who belong to underserved communities that have been denied such treatment, such as Black, Latino, and Indigenous and Native American persons, Asian Americans and Pacific Islanders and other persons of color; members of religious minorities; lesbian, gay, bisexual, transgender, and queer (LGBTQ+) persons; persons with disabilities; persons who live in rural areas; and persons otherwise adversely affected by persistent poverty or inequality.” We note that this definition was recently established and provides a useful, common definition for equity across different areas of government, although numerous other definitions of equity exist.

Our ongoing commitment to closing the equity gap in CMS quality programs is demonstrated by a portfolio of programs aimed at making information on the quality of health care providers and services, including disparities, more transparent to consumers and providers. The CMS Equity Plan for Improving Quality in Medicare outlines a path to equity which aims to support Quality Improvement Network Quality Improvement Organizations (QIN–QIOs); Federal, State, local, and tribal organizations; providers; researchers; policymakers; beneficiaries and their families; and other stakeholders in activities to achieve health equity. The CMS Equity Plan for Improving Quality in Medicare focuses on three core priority areas which inform our policies and programs: (1) Increasing understanding and awareness of health disparities; (2) developing and disseminating solutions to achieve health equity; and (3) implementing sustainable actions to achieve health equity. The CMS Quality Strategy and Meaningful Measures Framework also include elimination of racial and ethnic disparities as central principles. Our efforts aimed at closing the health equity gap to date have included providing transparency of health disparities, supporting providers and health officials with evidence-informed solutions to address social determinants of health and achieve health equity, and reporting to providers on gaps in quality as follows:

• The CMS Mapping Medicare Disparities Tool which is an interactive map that identifies areas of disparities and is a starting point to understand and investigate geographic, racial and ethnic differences in health outcomes for Medicare patients.

• The Racial, Ethnic, and Gender Disparities in Health Care in Medicare Advantage Stratified Report, which highlights racial and ethnic differences in health care experiences and clinical care, compares quality of care for women and men, and looks at racial and ethnic differences in quality of care among women and men separately for Medicare Advantage plans.

• The Rural-Urban Disparities in Health Care in Medicare Report which details rural-urban differences in health care experiences and clinical care.

• The Standardized Patient Assessment Data Elements for certain post-acute care Quality Reporting Programs, which now includes data reporting for race and ethnicity and preferred language, in addition to screening questions for social needs (84 FR 42536 through 42588).

The CMS Innovation Center’s Accountable Health Communities Model which includes a standardized collection of health-related social needs data.

• The Guide to Reducing Disparities which provides an overview of key issues related to disparities in readmissions and reviews set of activities that can help hospital leaders


reduce readmissions in diverse populations.\footnote{1007} The CMS State Health Official Letter. Opportunities in Medicaid and CHIP to Address Social Determinants of Health (SDOH) released on January 7, 2021, which outlines opportunities under Medicaid and the Children’s Health Insurance program (CHIP) to better address SDOH and to support states with designing programs, benefits, and services that can more effectively improve population health, reduce disability, and lower overall health care costs in the Medicaid and CHIP programs by addressing SDOH.\footnote{1008} The CMS Disparity Methods which provide hospital-level confidential results stratified by dual eligibility for condition-specific readmission measures currently included in the Hospital Readmissions Reduction Program (see 84 FR 42496 through 42500 for a discussion of using stratified data in additional measures).

These programs are informed by reports by the National Academies of Science, Engineering and Medicine (NASEM) and the Office of the Assistant Secretary for Planning and Evaluation (ASPE) which have examined the influence of social risk factors on several of our quality programs. In this RFI, we address only the eighth initiative as previously listed, the CMS Disparity Methods. We discuss the implementation of these methods to date and present considerations for continuing to improve and expand use of these methods to provide providers and ultimately consumers with actionable information on disparities in health care quality to support efforts at closing the equity gap.

2. Current CMS Disparity Methods

We first sought public comment on potential public reporting of hospital quality measure data stratified by social risk factors in the FY 2017 IPPS/LTCH PPS proposed rule (81 FR 25199). In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38403 through 38409), we considered potential confidential reporting of the Hospital Inpatient Quality Reporting (IQR) Program Pneumonia Readmission (NQF #0506) and Pneumonia Mortality (NQF #0468) measures stratified by dual-eligibility status. We initially focused on stratification by dual eligibility which is consistent with recommendations from ASPE’s First Report to Congress which was required by the Improving Medicare Post-Acute Care Transformation (IMPACT) Act of 2014 (Pub. L. 113–185). This report found that in the context of value-based purchasing (VBP) programs, dual eligibility, as an indicator of social risk, was among the most powerful predictors of poor health outcomes among those social risk factors that ASPE examined and tested. We also solicited feedback on the two potential methods for illuminating differences in outcomes rates among patient groups within a provider’s patient population that would allow for a comparison of those differences, or disparities, across providers. A first method (the Within-Hospital disparity method) promotes quality improvement by calculating differences in outcome rates among patient groups within a hospital while accounting for their clinical risk factors. This method also allows for a comparison of the magnitude of disparity across hospitals, so hospitals could assess how well they are closing disparity gaps compared to other hospitals. The second methodological approach (the Across-Hospital method) is complementary and assesses hospitals’ outcome rates for dual-eligible patients only, across hospitals, allowing for a comparison among hospitals on their performance caring for their patients with social risk factors. We also specifically solicited feedback on which social risk factors provide the most valuable information to stakeholders. Overall, comments supported the use of dual eligibility as a proxy for social risk, although commenters also suggested investigation of additional social risk factors, and we continue to consider which risk factors provide the most valuable information to stakeholders.

In the FY 2019 IPPS/LTCH PPS final rule (82 FR 41597 through 41601) we finalized plans to provide confidential hospital-specific reports for HSRs containing stratified results of the Pneumonia Readmission (NQF #0506) and Pneumonia Mortality (NQF #0468) measures including both the Across-Hospital Disparity Method and the Within-Hospital Disparity Methods (disparity methods) stratified by full-benefit dual eligibility. In the FY 2019 final rule (83 FR 41554 through 41556) we also removed six condition/procedure-specific readmission measures, including the Pneumonia Readmission Measure (NQF #0506) (83 FR 41544 through 41556) and five mortality measures, including the Pneumonia Mortality measures (NQF #0468) (83 FR 41556 through 41558) from the Hospital IQR Program. The Pneumonia Readmission measure (NQF #0506) and the other condition/procedure-specific readmission measures remained in the HRPP. We also noted in the FY 2019 final rule, that for the future, we were considering: (1) Expanding our efforts to provide stratified data in confidential HSRs for other measures; (2) including other social risk factors beyond dual eligible status in confidential HSRs; and (3) eventually, making stratified data publicly available on the Hospital Compare (now Care Compare) website or successor website (83 FR 41598). In 2019 we provided hospitals with results of the Pneumonia Readmission measure (NQF #0506) stratified using full-benefit dual eligibility. We provided this information in annual confidential HSRs for claims-based measures.

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42388 through 42390) we invited public comment on our proposal to apply the disparity methods to additional outcome measures for confidential reporting to the five additional condition/procedure-specific readmission measures: (1) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Acute Myocardial Infarction (AMI) Hospitalization (NQF #0505) (AMI Readmission measure); (2) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Coronary Artery Bypass Graft (CABG) Surgery (NQF #2515) (CABG Readmission measure); (3) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization (NQF #1891) (COPD Readmission measure); (4) Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Heart Failure (HF) Hospitalization (NQF #0330) (HF Readmission measure); and (5) Hospital-Level 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA).

Arthroplasty (TKA) (NQF #1551) (THA/TKA Readmission measure). Many commenters supported our proposal to continue to provide hospitals with confidential hospital-specific reports on the Pneumonia Readmission measure using the two disparity methods and to expand that effort to include the five additional condition/procedure-specific readmission measures. Commenters expressed concern with stratifying measure data based only on dual-eligibility status and recommended that we continue to consider and refine additional social risk factors for stratification in confidential HSRs and specifically consider additional factors that might affect outcomes or result in higher spending, including race, ethnicity, geographic area, sex, disability, education, and access to care. One commenter expressed concern about the reliability of race and ethnicity data if CMS should consider stratifying hospital quality data by such factors and recommended that CMS develop a proposal to improve the collection of race and ethnicity data or to promote public transparency using data that are of mixed quality, before reporting such data publicly. We replied that we focused our initial efforts on providing disparity results based on dual eligible status because of strong evidence demonstrating worse health outcomes among dual eligible Medicare beneficiaries, and because reliable information is readily available in our administrative claims. We also noted that we continue to explore opportunities to account for additional social risk factors in the future, including evaluating new sources of social risk factor data and how to capture such data, engaging with stakeholders, and examining the availability and feasibility of account for social risk factors which might influence quality outcome measures.

ASPE’s Second Report to Congress on Social Risk Factors and Performance in Medicare’s Value-Based Purchasing Program,1012 required by the Improving Medicare Post-Acute Care Transformation (IMPACT) Act of 2014, released in March 2020, recommended among other things, that CMS should explore ways to encourage providers to collect social risk information, that quality reporting programs should include health equity measures, and that quality and resource use measures should be reported separately for dually enrolled beneficiaries and other beneficiaries.

In 2020, we provided hospitals with results of each of the six condition/procedure-specific readmission measures, for which reporting requirements were met, stratified using full-benefit dual eligibility. We provided this information in annual confidential HSRs for claims-based measures. Results were made available for hospitals to download through the secure portal within the QualityNet website each spring. Results for the 2020 confidential reporting period for the CMS Disparity Methods showed worse outcomes for dually eligible beneficiaries across the majority of hospitals for all six condition-specific measures.1013 These results underscore the importance of continuing to make health care equity information more available to providers to promote quality improvement.

For additional information on the two disparity methods, we refer readers to the technical report available on the Quality Net website (https://qualitynet.cms.gov/Inpatient/measures/disparity-methods/resources#tab2), as well as the FY 2018 IPPS/LTCH PPS final rule (82 FR 38405 through 38407).

3. Potential Expansion of the CMS Disparity Methods

We are committed to advancing health equity by improving data collection to better measure and analyze disparities across programs and policies.1014 As we described previously, we have been considering, among other things, expanding our efforts to provide stratified data for additional social risk factors and measures, optimizing the ease-of-use of the results, enhancing public transparency of equity results, and building towards provider accountability for health equity. We are seeking public comment on three potential future expansions of the CMS Disparity Methods, including: (1) Future potential stratification of quality measure results by race and ethnicity, (2) improving demographic data collection, and (3) the potential creation of a Hospital Equity Score to synthesize results across multiple social risk factors.

The Administration’s Executive Order on Advancing Racial Equity and Support for Underserved Communities Through the Federal Government directs agencies to assess potential barriers that underserved communities and individuals may face to enrollment in and access to benefits and services in Federal Programs. As summarized previously, studies have shown that among Medicare beneficiaries, racial and ethnic minority persons often experience worse health outcomes, including more frequent hospital readmissions and procedural complications. We are considering expanding the disparity methods to include stratification of the condition/procedure-specific readmission measures by race and ethnicity.

The 1997 Office of Management and Budget (OMB) Revisions to the Standards for the Collection of Federal Data on Race and Ethnicity, outlines the racial and ethnic categories which may potentially be used for reporting the disparity methods, which we note are intended to be considered as social and cultural, and not biological or genetic.1015 The 1997 OMB Standard lists five minimum categories of race: (1) American Indian or Alaska Native; (2) Asian; (3) Black or African American; (4) Native Hawaiian or Other Pacific Islander; and (5) White. In the OMB standards, Hispanic or Latino is the only ethnicity category included, and since race and ethnicity are two separate and distinct concepts, persons who report themselves as Hispanic or Latino can be of any race.1016 Another example, the “Race & Ethnicity—CDC” code system in PHIN Vocabulary Access and Distribution System (VADS)1017 permits a much more granular structured recording of a patient’s race and ethnicity with its inclusion of over 900 concepts for race and ethnicity. The recording and exchange of patient race and ethnicity at such a granular level can facilitate the accurate identification and analysis of health disparities based on race and ethnicity. Further, the “Race & Ethnicity—CDC” code system has a hierarchy that rolls up to the OMB minimum categories for race and ethnicity and thus, supports


1014 Revisions to the standards for the classification of Federal data on race and ethnicity. 62 FR 58782–58790.

1015 https://www.census.gov/topics/population/hispanic-origin/about.html.

1016 https://www.census.gov/topics/population/hispanic-origin/about.html.
aggregation and reporting using the OMB standard. ONC includes both the CDC and OMB standards in its criterion for certified health IT products. For race and ethnicity, a certified health IT product must be able to express both detailed races and ethnicities using any of the 900 plus concepts in the “Race & Ethnicity—CDC” code system in the Public Health Information Network (PHIN) Vocabulary Access and Distribution Systems (VADS), as well as aggregate each one of a patient’s races and ethnicities to the categories in the OMB standard for race and ethnicity. This approach can reduce burden on providers recording demographics using certified products.

Self-reported race and ethnicity data are the gold standard for classifying an individual according to race or ethnicity. However, CMS currently does not consistently collect self-reported race and ethnicity for the Medicare program, but instead gets the data from the Social Security Administration (SSA) and the data accuracy and comprehensiveness have proven challenging despite capabilities in the marketplace via certified health IT products. Historical inaccuracies in Federal data systems and limited collection classifications have also contributed to the limited quality of race and ethnicity information in our administrative data systems. In recent decades, to address these data quality issues, we have undertaken numerous initiatives, including updating data taxonomies and conducting direct mailings to some beneficiaries to enable more comprehensive racial and ethnic identification. Despite those efforts, studies reveal varying data accuracy in identification of racial and ethnic groups in Medicare administrative data, with higher sensitivity for correctly identifying White and Black individuals, and lower sensitivity for correctly identifying individuals of Hispanic ethnicity or of Asian/Pacific Islander (API) and American Indian/Alaskan Native race. Incorrectly classified race or ethnicity may result in overestimation or underestimation in the quality of care received by certain groups of beneficiaries.

We continue to work with Federal and private partners to better collect and leverage data on social risk to improve our understanding of how these factors can be better measured in order to close the health equity gap. Among other things, we have developed an Inventory of Resources for Standardized Demographic, Social, and Behavioral Language Data Collection and supported collection of specialized International Classification of Disease, 10th Edition, Clinical Modification (ICD–10–CM) codes for describing the socioeconomic, cultural, and environmental determinants of health, and sponsored several initiatives to statistically estimate race and ethnicity information when it is absent. The Office of the National Coordinator for Health Information Technology (ONC) included social, psychological, and behavioral standards in the 2015 Edition health information technology certification criteria (2015 Edition), providing interoperability standards (LOINC [Logical Observation Identifiers Names and Codes] and SNOMED CT [Systematized Nomenclature of Medicine—Clinical Terms]) for financial strain, education, social connection and isolation, and others. Additional stakeholder efforts underway to expand capabilities to capture additional social determinants elements include the Gravity Project to identify and harmonize social risk factor data for interoperable electronic health information exchange for EHR fields, as well as proposals to expand the ICD–10 (International Classification of Diseases, Tenth Revision) z-codes, the alphanumeric codes used worldwide to represent diagnoses.

While development of sustainable and consistent programs to collect data on social determinants of health can be considerable undertakings, we recognize that another method to identify better race and ethnicity data is needed in the short term to address the need for reporting on health equity. In working with our contractors, two algorithms have been developed to indirectly estimate the race and ethnicity of Medicare beneficiaries (as described further in the next section). We believe that using indirect estimation can help overcome the current limitations of demographic information and enable timelier reporting of equity results until longer term collaborations to improve demographic data quality across the health care sector materialize. The use of indirect estimated race and ethnicity for conducting stratified reporting does not place any additional collection or reporting burdens on hospitals as these data are derived using existing administrative and census-linked data. Indirect estimation relies on a statistical imputation method for inferring a missing variable or improving an imperfect administrative variable using a related set of information that is more readily available. Indirectly estimated data are most commonly used at the population level (such as the hospital or health plan-level) where aggregated results form a more accurate description of the population than existing, imperfect data sets. These methods often estimate race and ethnicity using a combination of other data sources which are predictive of self-identified race and ethnicity, such as language preference, information about race and ethnicity in our administrative records, first and last names matched to validated lists of names correlated to specific national origin groups, and the racial and ethnic composition of the surrounding neighborhood. Indirect estimation has been used in other settings to support population-based equity measurement when self-identified data are not available. As described earlier, we have previously supported the development of two such methods of indirect estimation of race and ethnicity among Medicare beneficiaries.

---

1019 See https://www.healthit.gov/test-method/demographics.
beneficiaries. One indirect estimation approach developed by our contractor uses Medicare administrative data, first name and surname matching, derived from the U.S. Census and other sources, with beneficiary language preference, State of residence, and the source of the race and ethnicity code in Medicare administrative data to reclassify some beneficiaries as Hispanic or Asian/Pacific Islander (API). In recent years, we have also worked with another contractor to develop a new approach, the Medicare Bayesian Improved Stratified Geocoding (MBISG), which combines Medicare administrative data, first and surname matching, geocoded residential address linked to the 2010 U.S. Census, and uses both Bayesian updating and multinomial logistic regression to estimate the probability of belonging to each of six racial/ethnic groups.

The MBISG model is currently used to conduct the national, contract-level, stratified reporting of Medicare Part C & D performance data for Medicare Advantage Plans by race and ethnicity. Validation testing reveals concordance of 0.88–0.95 between indirectly estimated and self-reported among individuals who identify as White, Black, Hispanic and API for the MBISG version 2.0 and concordance of 0.88–0.95 between self-reported race and ethnicity of 0.96–0.99 for these same groups for MBISG version 2.1.

Indirect estimation can be a statistically reliable approach for calculating population-level equity results for groups of individuals (such as the hospital-level) and is not intended, nor being considered, as an approach for inferring the race and ethnicity of an individual.

However, despite the high degree of statistical accuracy of the indirect estimation algorithms under consideration, there remains the small risk of unintentionally introducing measurement bias. For example, if the indirect estimation is not as accurate in correctly estimating race and ethnicity in certain geographies or populations it could lead to some bias in the method results. Such bias might result in slight overestimation or underestimation of the quality of care received by a given group. We feel this amount of bias is considerably less than what would be expected if stratified reporting were conducted using the race and ethnicity currently contained in our administrative data. Indirect estimation of race and ethnicity is envisioned as an intermediate step, filling the pressing need for more accurate demographic information for the purposes of exploring inequities in service delivery, while allowing newer approaches, as described in the next section, for improving demographic data collection to progress. We are interested in learning more about, and soliciting comments about, the potential benefits and challenges associated with measuring hospital equity using an imputation algorithm to enhance existing administrative data quality for race and ethnicity until self-reported information is sufficiently available.

b. Improving Demographic Data Collection

Stratified hospital-level reporting using indirectly estimated race and ethnicity would represent an important advance in our ability to provide accurate equity reports to hospitals. However, self-reported race and ethnicity data are the gold standard for classifying an individual according to race or ethnicity. The CMS Quality Strategy outlines our commitment to strengthening infrastructure and data systems by ensuring that standardized demographic information is collected to identify disparities in health care delivery outcomes. Collection and sharing of a standardized set of social, psychological, and behavioral data by hospitals, including race and ethnicity, using electronic data definitions which permit nationwide, interoperable health information exchange, can significantly enhance the accuracy and robustness of our equity reporting. This could potentially include expansion of stratified reporting to additional social factors, such as language preference and disability status, where accuracy of administrative data is currently limited. We are mindful that additional resources, including data collection and staff training may be necessary to ensure that conditions are created whereby all patients are comfortable answering all demographic questions, and that individual preferences for non-response are maintained.

We note that eligible hospitals and CAHs participating in the Medicare Promoting Interoperability Program must use certified EHR technology (CEHRT) that has been certified to the 2015 Edition of health IT certification criteria. As noted previously, the certification criterion for Demographics under the 2015 Edition (at 45 CFR 170.315(a)(9)) supports collection of data using both the OMB standards for collecting data on race and ethnicity as well as the more granular “Race & Ethnicity—CDC” standard. In the 2020 ONC 21st Century Cures Act final rule, ONC also adopted a new framework for the core data set which certified health IT products must exchange, called the United States Core Data for Interoperability (USCDI) (85 FR 25669). The USCDI incorporates the demographic data and associated code sets finalized for the 2015 Edition certification criteria.

As noted previously, ONC also finalized a certification criterion in the 2015 Edition which supports a certified


1030 The Office of Minority Health (2020). Racial, Ethnic, and Gender Disparities in Health Care in Medicare Advantage, The Centers for Medicare and

1031 The Office of Minority Health (2020). Racial, Ethnic, and Gender Disparities in Health Care in Medicare Advantage, The Centers for Medicare and

1032 The Office of Minority Health (2020). Racial, Ethnic, and Gender Disparities in Health Care in Medicare Advantage, The Centers for Medicare and


health IT product’s ability to collect social, psychological, and behavioral data (at 45 CFR 170.315(a)(15)). However, this functionality is not included as part of the certified EHR technology required by the Promoting Interoperability program. While the technical functionality exists to achieve the gold standard of data collection, we understand challenges and barriers exist in using the technologies with these capabilities.

We are interested in learning about, and are soliciting comments on, current data collection practices by hospitals to capture demographic data elements (such as race, ethnicity, sex, sexual orientation, and gender identity (SOGI), language preference, tribal membership, and disability status). Further, we are interested in potential challenges facing hospital collection, at the time of admission, of a minimum set of demographic data elements in alignment with national data collection standards (such as the standards finalized by the Affordable Care Act [1036]) and standards for interoperable exchange (such as the United States Core Data for Interoperability incorporated into certified health IT products as part of the 2015 Edition of health IT certification criteria [1037]).

Advancing data interoperability through collection of a minimum set of demographic data collection, and incorporation of this demographic information into quality measure specifications, has the potential for improving the robustness of the disparity method results, potentially permitting reporting using more accurate, self-reported, information, such as race and ethnicity, and expanding reporting to additional dimensions of equity, including stratified reporting by disability status.

c. Potential Creation of a Hospital Equity Score—To Synthesize Results Across Multiple Social Risk Factors

As we previously described, we are considering expanding the disparity methods to include two social risk factors (dual eligibility which is currently reported and race/ethnicity, which is considered here in this RFI). This approach would improve the comprehensiveness of health equity information provided to hospitals. Aggregated results from multiple measures and multiple social factors, using output from the disparity methods, in the format of a summary score, can improve the usefulness of the equity results. In working with our contractors, we recently developed an equity summary score for Medicare Advantage contracts/plans, the Health Equity Summary Score (HESS), with application to stratified reporting using two social risk factors: Dual eligibility and race and ethnicity, as described in Incentivizing Excellent Care to At-Risk Groups with a Health Equity Summary Score.

The HESS calculates standardized and combined performance scores synthesized across the two social risk factors. The HESS also combines results of the within-plan method (similar to the Within-Hospital method) and across-plan method (similar to the Across-Hospital method) across multiple performance measures.1039

We are considering creating a Hospital Equity Score, not yet developed, which would be modeled off the HESS, but adapted to the context of risk-adjusted hospital outcome measures and potentially other hospital quality measures used in CMS programs. We envision that the Hospital Equity Score would synthesize results for a range of measures and use multiple social risk factors which have been reported to hospitals as part of the CMS Disparities Method. We believe that creation of the Hospital Equity Score has the potential to supplement the overall measure data already reporting on the Care Compare or successor website, by providing easy to interpret information regarding disparities measured within individual hospitals and across hospitals nationally. A summary score would be useful to decrease burden by minimizing the number of measure results provided and providing an overall indicator of equity.

The Hospital Equity Score under consideration would potentially—

• Summarize hospital performance across multiple social risk factors (initially dual eligibility and race/ethnicity, as described previously); and
• Summarize hospital performance across the two disparity methods (that is, the Within-Hospital Disparity Method and the Across-Hospital Disparity Method) and potentially multiple measures.

Prior to any potential future public reporting, if we determine that a Hospital Equity Score can be feasibly and accurately calculated, we intend to initially provide results of the Hospital Equity Score in confidential HSRs which hospitals will be able download. Any potential future proposal to display the Hospital Equity Score on the Care Compare or successor website would be made through future rulemaking.

4. Solicitation of Public Comment

We are currently seeking comment on the possibility of expanding our current disparities methods to include reporting by race and ethnicity using indirect estimation. We are also seeking comment on the possibility of hospital collection of standardized demographic information for the purposes of potentially incorporating into measure specifications to permit more robust equity measurement. Additionally, we are seeking comment on the design of a Hospital Equity Score for calculating results across multiple social risk factors and measures, including race/ethnicity and dual eligibility. Any data pertaining to the areas that are recommended for collection for measure reporting for a CMS program and any potential public disclosure on Care Compare or successor website would be addressed through separate and future notice-and-comment rulemaking. We plan to continue working with ASPE, hospitals, the public, and other key stakeholders on this important issue to identify policy solutions that achieve the goals of attaining health equity for all patients and minimizing unintended consequences. We look forward to receiving feedback on these topics and note for readers that responses to the RFI will not directly impact payment decisions. We also note our intention for additional RFI or rulemaking on this topic in the future.

Specifically, we are inviting public comment on the following:

• Future Potential Stratification of Quality Measure Results by Race and Ethnicity

++ The potential future application of an algorithm to indirectly estimate race and ethnicity to permit stratification of measures (in addition to dual-eligibility) for hospital—level disparity reporting, until more accurate forms of self-identified demographic information are available.
++ Appropriate privacy safeguards with respect to data produced from the indirect estimation of race and ethnicity to ensure that such data is properly identified if/when it is shared with providers.

++ Ways to address the challenges of defining and collecting, accurate and

1036 https://minorityhealth.hhs.gov/assets/pdf/checked/1/Fact_Sheet_Section_4302.pdf.
standardized, self-identified demographic information, including information on race and ethnicity, disability, and language preference for the purposes of reporting, measure stratification, and other data collection efforts relating to quality.

++ Recommendations for other types of feasibly collected data elements for measuring disadvantage and discrimination, for the purposes of quality reporting and measure stratification, in addition to, or in combination with, race and ethnicity.

++ Recommendations for other types of quality measures or measurement domains, in addition to readmission measures, to prioritize for stratified reporting by dual eligibility, race and ethnicity, and disability.

++ Examples of approaches, methods, research, and/or considerations for use of data-driven technologies that do not facilitate exacerbation of health inequities, recognizing that biases may occur in algorithms or be encoded in datasets.

• Improving Demographic Data Collection

++ Experiences of users of certified health IT regarding local adoption of practices for collection of demographic elements, the perceived value of using these data for improving decision-making and care delivery, and the potential challenges and benefits of collecting and using more granular, structured demographic information, such as the “Race & Ethnicity—CDC” code system.

++ The possible collection of a minimum set of demographic data elements (such as race, ethnicity, sex, sexual orientation and gender identity (SOGI), primary language, tribal membership, and disability status), by hospitals at the time of admission, using electronic data definitions which permit nationwide, interoperable health information exchange, for the purposes of incorporating into measure specifications and other data collection efforts relating to quality.

• Potential Creation of a Hospital Equity Score To Synthesize Results Across Multiple Social Risk Factors

++ The possible creation and confidential reporting of a Hospital Equity Score to synthesize results across multiple social risk factors and disparity measures.

++ Interventions hospitals could institute to improve high hospital equity score and how improved demographic data could assist with these efforts.

G. Hospital Inpatient Quality Reporting (IQR) Program

1. Background and History of the Hospital IQR Program

The Hospital IQR Program strives to put patients first by ensuring they are empowered to make decisions about their own healthcare along with their clinicians by using information from data-driven insights that are increasingly aligned with meaningful quality measures. We support technology that reduces burden and allows clinicians to focus on providing high quality healthcare for their patients. We also support innovative approaches to improve quality, accessibility, and affordability of care, while paying particular attention to improving clinicians’ and beneficiaries’ experiences when interacting with CMS programs. In combination with other efforts across the U.S. Department of Health and Human Services (HHS), we believe the Hospital IQR Program incentivizes hospitals to improve healthcare quality and value, while giving patients the tools and information needed to make the best decisions for themselves.

We seek to promote higher quality and more efficient healthcare for Medicare beneficiaries. The adoption of widely agreed upon quality and cost measures supports this effort. We work with relevant stakeholders to define measures in almost every care setting and currently measure some aspect of care for almost all Medicare beneficiaries. These measures assess clinical processes, patient safety and adverse events, patient experiences with care, care coordination, and clinical outcomes, as well as cost of care. We have implemented quality measure reporting programs for multiple settings of care. To measure the quality of hospital inpatient services, we implemented the Hospital IQR Program, previously referred to as the Reporting Hospital Quality Data for Annual Payment Update (RHQDAPU) Program. We refer readers to the following final rules for detailed discussions of the history of the Hospital IQR Program, including statutory history, and for the measures we have previously adopted for the Hospital IQR Program measure set:

• The FY 2010 IPPS/LTCH PPS final rule (74 FR 43660 through 43861);
• The FY 2011 IPPS/LTCH PPS final rule (75 FR 50180 through 50181);
• The FY 2012 IPPS/LTCH PPS final rule (76 FR 51605 through 61653);
• The FY 2013 IPPS/LTCH PPS final rule (77 FR 53503 through 53555);

• The FY 2014 IPPS/LTCH PPS final rule (78 FR 50775 through 50837);
• The FY 2015 IPPS/LTCH PPS final rule (79 FR 50217 through 50249);
• The FY 2016 IPPS/LTCH PPS final rule (80 FR 49660 through 49692);
• The FY 2017 IPPS/LTCH PPS final rule (81 FR 57148 through 57150);
• The FY 2018 IPPS/LTCH PPS final rule (82 FR 38326 through 38328 and 82 FR 38348);
• The FY 2019 IPPS/LTCH PPS final rule (83 FR 41538 through 41609);
• The FY 2020 IPPS/LTCH PPS final rule (84 FR 42448 through 42509);
• The FY 2021 IPPS/LTCH PPS final rule (85 FR 58926 through 58959).

We also refer readers to 42 CFR 412.140 for Hospital IQR Program regulations.

2. Retention of Previously Adopted Hospital IQR Program Measures for Subsequent Payment Determinations

We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53512 through 53513) for our finalized measure retention policy. Pursuant to this policy, when we adopt measures for the Hospital IQR Program beginning with a particular payment determination, we automatically readopt these measures for all subsequent payment determinations unless a different or more limited time period is finalized in the measure proposals. Measures are retained unless we propose to remove, suspend, or replace the measures. We are not proposing any changes to these policies in this proposed rule.

3. Removal Factors for Hospital IQR Program Measures

We refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41540 through 41544) for a summary of the Hospital IQR Program’s removal factors. We are not proposing any changes to our policies regarding measure removal in this proposed rule.

4. Considerations in Expanding and Updating Quality Measures

We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53510 through 53512) for a discussion of the previous considerations we have used to expand and update quality measures under the Hospital IQR Program. We also refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41147 through 41148), in which we describe the Meaningful Measures Framework, our objectives under this Framework for quality measurement, and the quality topics that we have identified as high-impact measurement areas that are relevant and meaningful to both patients
and providers. We are not proposing any changes to these policies in this proposed rule. We also note that the Hospital IQR Program must first adopt measures and publicly report them on the Care Compare and/or its successor website for at least one year before the Hospital VBP Program is able to adopt them. We view the value-based purchasing programs, including the Hospital VBP Program, as the next step in promoting higher quality care for Medicare beneficiaries by transforming Medicare from a passive payer of claims into an active purchaser of quality healthcare for its beneficiaries.

5. Proposals To Adopt New Measures for the Hospital IQR Program Measure Set

In this proposed rule, we are proposing to adopt five new measures: (1) Maternal Morbidity Structural Measure, beginning with a shortened reporting period from October 1, 2021 through December 31, 2021, affecting the CY 2021 reporting period/FY 2023 payment determination; (2) Hybrid Hospital-Wide All-Cause Risk Standardized Mortality (Hybrid HWM) measure beginning with a voluntary submission period which would run from July 1, 2022 through June 30, 2023, and followed by mandatory reporting beginning with the reporting period which runs July 1, 2023 through June 30, 2024, affecting the FY 2026 payment determination; (3) COVID–19 Vaccination Coverage Among Healthcare Personnel (HCP) measure beginning with a shortened reporting period from October 1, 2021 through December 31, 2021, affecting the CY 2021 reporting period/FY 2023 payment determination; (4) Hospital Harm-Severe Hypoglycemia eCQM beginning with the CY 2023 reporting period/FY 2025 payment determination; and (5) Hospital Harm-Severe Hyperglycemia eCQM beginning with the CY 2023 reporting period/FY 2025 payment determination. The following sections discuss these proposals in more detail.

a. Proposed Maternal Morbidity Structural Measure Beginning With a Shortened Reporting Period From October 1, 2021 Through December 31, 2021, Affecting the FY 2023 Payment Determination Followed By Annual Reporting Periods For Subsequent Years

(1) Background

Despite the highest rate of spending on maternity care, the U.S. ranks worse than most other developed nations in preventing pregnancy-related deaths. The Maternal Mortality Rate in the U.S. increased from 17 deaths per 100,000 live births in 1990 to 26 deaths per 100,000 live births in 2015. Similar to maternal mortality, maternal morbidity is highly preventable. Without proper treatment, maternal morbidities can lead to mortality. Researchers have found that the presence of select maternal morbidities such as chronic hypertension and preeclampsia were strongly associated with increased odds of mortality at the time of delivery. Timely and appropriate treatment of maternal morbidities is imperative to prevent complications that can lead to maternal mortality.

One of the main factors contributing to the increase in maternal morbidity and mortality is inconsistent obstetric practice. Hospitals in the U.S. lack standardized protocols to address obstetric emergencies and complications that arise during pregnancy and childbirth. A standardized approach to address these concerns is necessary to effectively manage obstetric emergencies and complications. Thus, assessing hospital engagement in implementing standardized protocols is essential to efficiently manage maternal morbidity nationally. Addressing this maternal health crisis and improving maternal health is a priority and a quality improvement goal for CMS.

Therefore, in this proposed rule, we are proposing to adopt the Maternal Morbidity Structural Measure (Maternal Morbidity measure), beginning with a shortened reporting period running from October 1, 2021 through December 31, 2021, affecting the FY 2023 payment determination, to help address this maternal health crisis. After which, the reporting period would be 12 months beginning with the FY 2024 payment determination (reporting period January 1, 2022 through December 31, 2022) and for subsequent years. We developed this structural measure to determine hospital participation in a State or national Perinatal Quality Improvement (QI) Collaborative initiative and implementation of patient safety practices or bundles within that QI initiative. We define a state or national Perinatal Quality Improvement Collaborative as a statewide or a multi-State network working to improve women’s health and maternal health outcomes by addressing the quality and safety of maternity care. These collaboratives employ clinical practices and processes to address gaps in care, as well as collect and review performance data. These collaboratives also include implementation of evidence-based maternity safety bundles and/or patient safety practices to improve patient outcomes and reduce maternal mortality and severe maternal morbidity. Hospital participation in quality improvement collaboratives has been shown to be effective in appropriately managing maternal morbidity conditions that may lead to mortality or other adverse consequences. This measure would: (1) Determine the number of hospitals currently participating in a structured State or national Perinatal QI Collaborative; and (2) determine whether hospitals are implementing the safety practices or bundles included as part of these QI initiatives.

State level QI programs have shown to be effective in decreasing maternal morbidity. One controlled trial conducted at 147 California hospitals utilizing a QI toolkit, which
was a patient safety bundle for obstetrical hemorrhage, found that hospitals that had implemented the QI toolkit showed a 20.8 percent decrease in obstetrical hemorrhage versus a 1.2 percent reduction at non-participating hospitals.\textsuperscript{1051} We believe the Maternal Morbidity measure will help us better understand the current efforts of hospitals to improve nationwide inpatient maternal morbidity.

The existing literature on maternal morbidity also documents how patient safety practices and bundles utilized in statewide and other Federal Programs.\textsuperscript{1052} Quality Collaborative programs can improve maternal outcomes.\textsuperscript{1052} The implementation of triggers, bundles, protocols, and checklists have been shown to improve the quality and safety of obstetric care delivery.\textsuperscript{1053} Triggers are used to identify an event that mandates further action by a healthcare professional, which then facilitates timely intervention and patient safety.\textsuperscript{1054} Examples of triggers include hypertension greater than 180/110 and fever (temperature over 38.5°C).\textsuperscript{1055} Bundles are a collection of interventions such as checklists, protocols, and educational materials that target a specific morbidity such as hypertension or hemorrhage.\textsuperscript{1056} Protocols are precise plans of action for specific clinical scenarios and serve to augment memory and limit human error in demanding environments such as labor and delivery units.\textsuperscript{1057} These evidence-based tools also facilitate improvements in timely diagnosis and treatment that serve to prevent morbidity.\textsuperscript{1058} This measure would allow us to assess hospital participation in QI collaborative programs in the inpatient setting and the implementation of safety practices or bundles.

At this time, CMS quality reporting programs do not include quality measures that specifically address maternal morbidity. The current Hospital IQR Program measure set includes the PC–QI measure for Elective Deliveries (77 FR 53530), and the Merit-Based Incentive Payment System (MIPS) in the Quality Payment Program includes measures for Elective Delivery or Early Induction and Post-Partum Follow-up and Care Coordination (81 FR 77625). While these measures contribute to improving maternal health, they do not specifically address maternal morbidity. Therefore, we believe it is important to adopt this measure into the Hospital IQR Program. Under CMS’ Meaningful Measures Framework, the Maternal Morbidity measure addresses the quality priority of “Make Care Safer by Reducing Harm Caused in the Delivery of Care” through the Meaningful Measures Area of “Preventable Healthcare Harm.”\textsuperscript{1059} Because many of the factors contributing to maternal morbidity are preventable, this measure would be the first step toward assessing the current landscape of QI participation and implementation of patient safety practices or bundles with the objective of reducing maternal morbidity, and in turn, maternal mortality.

(2) Overview of Measure

To report on this measure, hospitals would respond to a two-part question: “Does your hospital or health system participate in a Statewide and/or National Perinatal Quality Improvement Collaborative Program aimed at improving maternal outcomes during inpatient labor, delivery and post-partum care, and has implemented patient safety practices or bundles related to maternal morbidity to address complications, including, but not limited to, hemorrhage, severe hypertension/preeclampsia or sepsis?” Hospitals would then choose from the following response options: (A) “Yes”; (B) “No”; or (C) “N/A (our hospital does not provide inpatient labor/delivery care)” and would submit responses once a year via a CMS-approved web-based tool on the QualityNet website.

The Maternal Morbidity measure was included on the publicly available “2019 Measures Under Consideration Spreadsheet”\textsuperscript{1060} (MUC List), a list of measures under consideration for use in various Medicare programs. The Measure Applications Partnership (MAP) Hospital Workgroup, which the MAP Coordinating Committee oversees, reviewed the MUC List and the Maternal Morbidity measure (MUC2019–114) in detail on December 4, 2019.\textsuperscript{1061} The MAP Hospital Workgroup reviewed the measure as: “Does your hospital or health system participate in a Statewide and/or National Perinatal Quality Improvement Collaborative Program aimed at improving maternal outcomes during inpatient labor, delivery and post-partum care, which includes implementation of patient safety practices or bundles to address complications, including, but not limited to, hemorrhage, severe hypertension/preeclampsia or sepsis?”\textsuperscript{1062} The MAP Hospital Workgroup’s preliminary recommendation was to not support MUC2019–114 Maternal Morbidity for rulemaking, with potential for mitigation.\textsuperscript{1063}

The potential mitigating factors identified by the MAP Hospital Workgroup were to adjust the language of the question to clarify that the hospital is expected both to attest to participation in a quality improvement initiative as well as to implement patient safety practices or bundles to


\textsuperscript{1055} Forster, Alan J. MD, FRCP; Fung, Irene; Caughey, Sharon MD, FRCP; Oppenheimer, Lawrence MD, FRCP; Beach, Cathy; Shojania, Kaveh G. MD; van Walraven, Carl MD, FRCP; MSc. 2006. Adverse Events Detected by Clinical Surveillance on an Obstetric Service. Obstetrics and Gynecology, 108(5): 1073–1083.


\textsuperscript{1061} National Quality Forum. Measure Applications Partnership (MAP) 2020 Considerations for Implementing Measures in Federal Programs: Hospitals. Available at: qualityforum.org/map/.

\textsuperscript{1062} National Quality Forum. Measure Applications Partnership (MAP) 2020 Considerations for Implementing Measures in Federal Programs: Hospitals. Available at: qualityforum.org/map/.
address complications and that the Maternal Morbidity measure go through the NQF endorsement process. The MAP Hospital Workgroup members suggested replacing “which includes implementation of patient safety practices or bundles” with “and has implemented patient safety practices or bundles” to clarify that the intent of the measure is both to identify hospitals that participate in a QI program and implement specific bundles known to improve outcomes. To address the MAP’s feedback regarding the measure’s usability, we made the aforementioned change to the measure, thereby clarifying that the measure would assess participation in QI initiatives and the implementation of patient safety practices or bundles to address complications (rather than assessing participation in a QI initiative alone). The MAP Coordinating Committee, which provides direction to the MAP workgroups, reconvened on January 15, 2020 and reviewed MUC2019–114 Maternal Morbidity measure for rulemaking in detail. The MAP Coordinating Committee reviewed the measure as: “Does your hospital or health system participate in a Statewide and/or National Perinatal Quality Improvement Collaborative Program aimed at improving maternal outcomes during inpatient labor, delivery and post-partum care, and has implemented patient safety practices or bundles to address complications, including, but not limited to, hemorrhage, severe hypertension/preeclampsia or sepsis?” Upon the review of the measure, the MAP Coordinating Committee conditionally supported MUC2019–114 Maternal Morbidity for rulemaking. The conditions identified by the MAP Coordinating Committee included adjusting the language of the attestation question to clarify that the hospital is expected both to attest to participation in a quality improvement initiative as well as actually implement patient safety practices or bundles to address complications. In response to this recommendation, we adjusted the language of the attestation to clarify that answering “Yes” to the attestation reflects a yes response to both components of the question. The MAP Coordinating Committee included an additional condition that we allow multi-hospital quality improvement collaborative participation, in addition to statewide or national collaboratives, to account for programs sponsored by large health systems. We considered this, but ultimately concluded that those programs should not be included because they are not as well defined as State and national collaboratives. The MAP Coordinating Committee also recommended adding information to the response options to clarify what constitutes a “yes, no, or n/a” response. In response to this recommendation, we plan to include additional educational and clarifying detail on the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System). Such additional educational and clarifying detail would explain that a hospital participating in a statewide or national Perinatal QI Collaborative, such as the California Maternal Quality Care Collaborative or the Alliance for Innovation on Maternal Health (AIM) program, that has actively implemented patient care safety practices and/or bundles would select “yes.” A hospital that neither participates in a statewide or national Perinatal QI Collaborative, such as those previously noted, nor has actively implemented patient care safety practices and/or bundles, would select “no.” A hospital that participates in a statewide or national Perinatal QI Collaborative, but has not actively implemented patient care safety practices and/or bundles would select “no.” Hospitals that do not provide inpatient labor and delivery care services would select “n/a.” Lastly, the MAP Coordinating Committee added a condition that the Maternal Morbidity measure should go through the NQF endorsement process and receive endorsement. The MAP Coordinating Committee underscored that maternal morbidity is increasing at an alarming rate in the U.S., nearly doubling in the last decade. With no quality measures that address maternal morbidity, the MAP Coordinating Committee strongly supported our attempts to address this healthcare crisis through measurement. Section 1886(b)(3)(B)(IX)(bb) of the Act provides an exception that, in the case of a specified area or medical topic determined appropriate by the Secretary for which a feasible and practical measure has not been endorsed by the entity with a contract under section 1890(a) of the Act, the Secretary may specify a measure that is not so endorsed as long as due consideration is given to measures that have been endorsed or adopted by a consensus organization identified by the Secretary. We reviewed NQF-endorsed measures and were unable to identify any other NQF-endorsed measures that addressed maternal morbidity through hospital participation in State or national perinatal quality collaboratives and the implementation of associated bundles or practices. We found no other feasible and practical measures on the topic of maternal health, therefore we believe the exception in Section 1886(b)(3)(B)(IX)(bb) of the Act applies. (3) Data Submission and Reporting We are proposing to begin with a shortened reporting period before transitioning to full year reporting periods to get a preliminary gauge of hospital participation in QI initiatives in a timely manner. Specifically, for the CY 2021 reporting period/FY 2023 payment determination, we are proposing a shortened reporting period: October 1, 2021 through December 31, 2021. Beginning with the CY 2022 reporting period/FY 2024 payment determination and for subsequent years, we are proposing that the reporting period would be January 1 through December 31.
We propose to collect this data once a year via a CMS-approved web-based data collection tool available on the QualityNet website, similar to previous methods of reporting on structural measures. Specifications for the measure will also be posted on the CMS Measure Methodology page with the file name ‘Maternal Morbidity Structural Measure Specifications’ at: https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Measure-Methodology. We refer readers to section IX.C.6.i. of the preamble of this proposed rule for more details on our data submission and deadline requirements for structural measures.

We invite public comment on our proposal to adopt the Maternal Morbidity measure beginning with a shortened reporting period running from October 1, 2021 through December 31, 2021, affecting the FY 2023 payment determination, followed by the annual reporting period of January 1 through December 31 for the FY 2024 payment determination and subsequent years.

b. Proposed Hybrid Hospital-Wide All-Cause Risk Standardized Mortality Measure with Claims and Electronic Health Record Data (NQF #3502) Voluntary From July 1, 2022 Through June 30, 2023, and Mandatory Beginning July 1, 2023 Through June 30, 2024, Affecting the FY 2026 Payment Determination and Subsequent Years

(1) Background

Estimates using data from 2008 to 2011 suggest that more than 210,000 patients die each year from preventable harm in hospitals.1074 While we do not expect overall hospital mortality rates to be zero, studies have shown that quality of care relates to mortality within 30 days of hospital admission and that high and variable mortality rates across hospitals indicate opportunities for improvement.1075 1076 In addition to the harm to individuals, their families, and caregivers resulting from preventable death, there are also significant financial costs to the healthcare system associated with high and variable mortality.

Costs to the healthcare system associated with mortality events is challenging, using monetary savings for preventable death, there are also significant financial costs to caregivers resulting from preventable mortality.1075 1076 In addition to the hospitals indicate opportunities for improvement.1075 1076 For example, the implementation of condition-specific measures, national hospital mortality rates for the measured conditions and/or procedures have declined.1083 Now, we are interested in also measuring hospital performance across a broader set of patients and across more areas of the hospital.

We developed a hybrid hospital-wide, all-cause, risk-standardized mortality measure that uses claims data to define the measure cohort and a combination of data from electronic health records (EHRs) and claims for risk adjustment (Hybrid Hospital-Wide All-Cause Risk Standardized Mortality Measure (hereinafter referred to as the “Hybrid HWM measure”)). As more patients are included, a hospital-wide mortality measure also captures the performance for smaller volume hospitals that would otherwise not have sufficient cases to receive measure score or performance information for condition- or procedure-specific mortality measures. As developed, the Hybrid HWM measure addresses the Meaningful Measures Framework quality priority of ‘Promoting Effective Treatment to Reduce Risk-Adjusted Mortality.’

The measure developer under contract with us engaged several stakeholder groups, including a Technical Work Group and a Patient and Family Work Group, as well as a national, multi-stakeholder Technical Expert Panel (TEP) consisting of providers, patients, and other stakeholders. These groups provided feedback on the measure concept, outcome, cohort, risk model variables, and the reporting of measure results. The measure developer also solicited stakeholder feedback during measure development as required in the Measures Management System (MMS) Blueprint, including two public comment periods.1084

The Hybrid HWM measure uses claims and EHR data to move toward greater use of EHR data for quality measurement. This approach aligns with stakeholder feedback on the importance of including clinical data that is available to the clinical care team at the time treatment is rendered to account for patients’ severity of illness, rather than relying solely on data from claims in outcome measures (80 FR 49702 through 49703). This approach also aligns with our goal to move towards digital quality measures (dQMs) to reduce provider data collection burden and to provide more rapid and accurate feedback on quality measures, as discussed further in section IX.A. of the preamble of this proposed rule.

The Hybrid HWM measure uses a set of core clinical data elements from hospitals’ EHRs, similar to those used in the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data (NQF #2879), which was adopted in the Hospital IQR Program in the FY2020 IPPS/LTPP PPS final rule (84 FR 42467). These core clinical data elements are data that hospitals routinely collect, that can be feasibly extracted from hospital EHRs, and that can be utilized as part of specific quality outcome measures.1085


The data elements are the values for a set of vital signs and common laboratory tests collected at the time the patient initially presents to the hospital. They are used, in addition to claims data, for risk adjustment of patients’ severity of illness (for Medicare FFS beneficiaries who are aged between 65 and 94 years). We refer readers to section IX.C.5.b. of the preamble of this proposed rule for more detail on the core clinical data elements used in this measure.

The Hybrid Hospital-Wide All-Cause Risk Standardized Mortality Measure (MUC17–196) was included in a publicly available document entitled “2017 Measures Under Consideration List” (available at: http://www.qualityforum.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=86527). The NQF MAP Hospital Workgroup reviewed the measure and noted that it is an important measure for patient safety and that the measure could help reduce deaths due to medical errors. The MAP expressed concern regarding the potential unintended consequences of unnecessary interventions for patients at the end of life. The measure developer addressed this issue based upon TEP and patient work group input to remove patients from the cohort who are at the end of life and for whom survival is unlikely to be the goal of care. Specifically, the measure does not include patients enrolled in hospice in the 12 months prior to admission, on admission, or within 2 days of admission. The measure also does not include patients admitted primarily for cancer that are enrolled in hospice at any time during the admission, those admitted primarily for metastatic cancer, and those admitted for specific diagnoses with limited survival.

The MAP noted that appropriate risk adjustment and exclusions are necessary to ensure the measure does not disproportionately penalize facilities who may see more complex patients (for example, academic medical centers or safety net providers) or who may have smaller volumes of patients (for example, rural providers). We subsequently submitted the measure for initial endorsement by the NQF and presented analyses to NQF on the impact of social risk factors. Specifically, we assessed the relationship between two social risk factor variables (Medicare-Medicaid dual-eligibility status and the AHRQ-validated socioeconomic status (SES) index score) and the outcome (mortality). We also examined the effect of adding either of these variables into the risk adjustment model on model performance and hospital results. We concluded that correlations between measure scores for models with and without social risk variables were near 1.0, model performance metrics were unchanged, and in most divisions the social risk variables did not have statistically significant association with the risk of mortality in a multivariable model. For the division in which AHRQ SES was associated with mortality, further analyses indicated that adjusting for AHRQ SES would remove hospital-level effects that may reflect lower-quality care provided to patients with low SES status. Based on these results, the measure as endorsed by NQF does not adjust for these social risk factors. The measure is risk-adjusted to account for case mix and service mix differences to prevent disproportionately penalizing facilities.

The MAP expressed conditional support for the Hybrid HWM measure on October 23, 2019. The MAP also recommended the Hybrid HWM measure includes beginning with a 1-year voluntary reporting period, as further detailed later in section IX.C.5.b.(a) of this proposed rule. In the FY 2019 IPPS/LTC FFPS final rule, we described the potential future inclusion of the Hybrid HWM measure in the Hospital QIR Program and
would be based on fewer than 15 divisions because of differences in their case mix.

Our goal is to more comprehensively measure the mortality rates of hospitals, including to improve the ability to measure mortality rates in smaller volume hospitals. The cohort definition attempts to capture as many admissions as possible for which survival would be a reasonable indicator of quality and for which adequate risk adjustment is possible. We assume survival would be a reasonable indicator of quality for admissions fulfilling two criteria: (1) Survival is presumably the primary goal of the patient when they enter the hospital; and (2) the hospital can reasonably influence the patient’s chance of survival through quality of care. The Hybrid HWM measure would provide information to hospitals that can facilitate quality improvement efforts and would expand upon condition- and procedure-specific measures by including more settings, types of care, and types of patients. In addition, the Hybrid HWM measure would provide transparency about the quality of care in clinical areas not captured in the current condition- and procedure-specific measures.

Additional information on the specifications of the Hybrid HWM measure can be found in the Core Clinical Data Elements and Hybrid Measure folder on the CMS website at:

https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Initiatives/HospitalQualityInits/Measure-Methodology.html

(3) Data Sources

The Hybrid HWM measure uses three main sources of data for the calculation of the measure: (1) Medicare Part A claims data; (2) a set of core clinical data elements from a hospital’s EHR; and (3) mortality status obtained from the Medicare Enrollment Database. The measure uses claims and enrollment data to identify index admissions included in the Hybrid HWM measure cohort, in the risk-adjustment model, and to assess the 30-day mortality outcome. The measure uses one year of Part A Medicare administrative claims data from Medicare FFS beneficiaries aged between 65 and 94 years for the performance period. The measure uses Part A data from the 12 months prior to the index admission for risk adjustment, as well as core clinical data elements from each hospital’s EHR for eligible patient admissions. The core clinical data elements are the values for a set of vital signs and common laboratory tests collected on patients admitted to acute care hospitals. The measure also requires a set of linking variables that are present in both the EHR and claims data, which allows us to match each patient’s core clinical data elements to the claim for the relevant admission. We refer readers to the methodology report available on the CMS website for the list of linking variables and more detailed discussion.

(4) Outcome

The outcome of interest for the Hybrid HWM measure is all-cause 30-day mortality. We define all-cause mortality as death from any cause within 30 days of the index hospital admission date.

(5) Cohort

The Hybrid HWM measure cohort consists of Medicare FFS beneficiaries, aged between 65 and 94 years, discharged from a non-Federal, short-term acute care hospital, within the 1-year measurement period (July 1 to June 30 of each year). The measure was developed using ICD–9 codes, and then re-specified and re-tested using ICD–10 data. The Hybrid HWM measure cohort uses the Agency for Healthcare Research and Quality (AHRQ) Clinical Classification Software (CCS) to group numerous diagnostic and procedural ICD–10 codes into the clinically meaningful categories defined by the AHRQ grouper. We made modifications to these AHRQ CCSs based on risk of mortality, as described in the Hybrid Hospital-Wide (All-Condition, All-Procedure) Risk-Standardized Mortality Measure with Electronic Health Record Extracted Risk Factors Measure Methodology Report Version 2.0. The Hybrid HWM measure uses those CCS categories as part of cohort specification and risk-adjustment, including the 15 service-line risk models.


(6) Inclusion and Exclusion Criteria

The Hybrid HWM measure cohort currently includes Medicare FFS patients who—

• Were enrolled in Medicare FFS Part A for the 12 months prior to the date of admission and during the index admission;
• Have not been transferred from another inpatient facility;
• Were admitted for acute care (do not have a principal discharge diagnosis of a psychiatric disease or do not have a principal discharge diagnosis of “rehabilitation care; fitting of prostheses and adjustment devices”);
• Are between 65 and 94 years of age;
• Are not enrolled in hospice at the time of or in the 12 months prior to their index admission;
• Are not enrolled in hospice within 2 days of admission;
• Are without a principal diagnosis of cancer and enrolled in hospice during their index admission;
• Are without any diagnosis of metastatic cancer; and
• Are without a discharge diagnosis that is present on admission (POA) for a condition for which hospitals have limited ability to influence survival, including: Anoxic brain damage; persistent vegetative state; prion diseases such as Creutzfeldt-Jakob disease, Cheyne-Stokes respiration; cardiac arrest without a secondary diagnosis of acute myocardial infarction;
• With inconsistent or unknown vital status;
• Discharged against medical advice;
• With an admission for crush injury, burn, intracranial injury, skull and face fractures, open wounds of head, neck, and trunk, or spinal cord injury; or
• With an admission in a low-volume CCS (within a particular service-line division), defined as equal to or less than 100 patients with that principal diagnosis across all hospitals.

The Hybrid HWM measure assigns each index admission to one of the mutually exclusive service-line divisions. For details on how each admission is assigned to a specific service-line division, and for a complete description and rationale of the inclusion and exclusion criteria, we refer readers to the Hybrid Hospital-Wide (All-Condition, All-Procedure) Risk-Standardized Mortality Measure with Electronic Health Record Extracted Risk Factors Measure Methodology Report Version 2.0.

(7) Risk Adjustment

The Hybrid HWM measure adjusts for both case mix differences (clinical status of the patient, accounted for by adjusting for age and comorbidities) and service-mix differences (the types of conditions and procedures cared for and procedures conducted by the hospital, accounted for by the discharge CMS condition category and AHRQ CCS). Patient comorbidities are based on inpatient hospital administrative claims during the 12 months prior to and including the index admission derived from ICD–10 codes grouped into the CMS condition categories (CMS–CCs). Risk variable coefficients vary by service-line division. We used version 22 of the CMS–CC map (for more information about our risk-adjustment model software, we refer readers to the Risk Adjustment page on the CMS website at: [https://www.cms.gov/Medicare/Health-Plans/MedicareAdvtgSpecRateStats/Risk-Adjustors.html]).

The Hybrid HWM measure also includes the core clinical data elements in the case mix adjustment. The core clinical data elements are values for lab values and vital signs derived from information captured in the EHR during the index admission only, as described in the FY 2016 IPPS/LTCH PPS final rule (80 FR 49699). The core clinical data elements are clinical information meant to reflect a patient’s clinical status upon arrival to the hospital. The table lists the 10 specific elements used in the proposed Hybrid HWM measure.


The core clinical data elements utilize EHR data, therefore, using the Measure Authoring Tool (MAT)—a web-based tool that allows the authoring of eCQMs using a standardized data model and Clinical Quality Language (CQL) expressions—we developed and tested a MAT output and identified value sets for extraction of the core clinical data elements, which are available at the eCQI Resource Center: https://ecqi.healthit.gov/pre-rulemaking-eh-cah-ecqms. For more details on how the risk variables in each measure were chosen, we refer readers to the Hybrid Hospital-Wide (All-Condition, All-Procedure) Risk-Standardized Mortality Measure with Electronic Health Record Extracted Risk Factors Measure Methodology Report Version 2.0.

The proposed Hybrid HWM measure was initially specified to use core clinical data elements that are similar to, but not precisely the same as, those used in the Hybrid Hospital-Wide Readmission Measure (Hybrid HWR) measure and the Hybrid Hospital-Wide Readmission Measure with Electronic Health Record Data measure (NQF #2879), for which we are currently collecting data from hospitals on a voluntary basis through June 30, 2023 (84 FR 42465). Since the Hybrid HWM measure was described in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41581 through 41588), we have updated the core clinical data elements for the Hybrid HWM measure to include hematocrit instead of hemoglobin to better align with the Hybrid HWR measure. Hemoglobin and hematocrit values are highly correlated and interchangeable with respect to their impact in the Hybrid HWM measure’s risk model. The Pearson correlation coefficients of hemoglobin to hematocrit ranged from 0.88 to 0.97, depending on service-line division. We believe this alignment will increase the ease of reporting on both measures.

With this update, hospitals would already collect nine of the ten core clinical data elements used in the Hybrid HWM measure for reporting on the Hybrid HWR measure, with platelets being the only additional data element used specifically for the Hybrid HWM measure. For more detail about the core clinical data elements used in the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data measure (NQF #2879), we refer readers to our discussion in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42465 through 42479) and the Hybrid Hospital-Wide Readmission Measure with Electronic Health Record Extracted Risk Factors report (available at: https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Measure-Methodology.html).

We would update the measure specifications annually for the measure to incorporate new and revised ICD–10 codes effective October 1 of each year after clinical review as necessary. We would also update and publicly release the MAT output annually as necessary to include any updates to the electronic specifications, which includes value sets for the measure-specific data elements.

(8) Measure Calculation

Index admissions are assigned to one of 15 mutually exclusive service-line divisions consisting of related conditions or procedures. For each service-line division, the standardized mortality ratio (SMR) is calculated as the ratio of the number of “predicted” deaths to the number of “expected” deaths at a given hospital. In other words, for each hospital, the numerator of the ratio is the number of deaths within 30 days predicted based on the hospital’s performance with its observed case mix and service mix, and the denominator is the number of deaths expected based on the nation’s performance with that hospital’s case mix and service mix. This approach is analogous to a ratio of “observed” to

### Currently Specified Core Clinical Data Element Variables

<table>
<thead>
<tr>
<th>Data Elements</th>
<th>Units of Measurement</th>
<th>Time Window for First Captured Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart Rate</td>
<td>Beats per minute</td>
<td>0-2 hours</td>
</tr>
<tr>
<td>Systolic Blood Pressure</td>
<td>mmHg</td>
<td>0-2 hours</td>
</tr>
<tr>
<td>Temperature</td>
<td>Degrees (Fahrenheit or Celsius)</td>
<td>0-2 hours</td>
</tr>
<tr>
<td>Oxygen Saturation</td>
<td>Percent</td>
<td>0-2 hours</td>
</tr>
<tr>
<td>Hematocrit</td>
<td>Percent</td>
<td>0-24 hours</td>
</tr>
<tr>
<td>Platelet</td>
<td>Count</td>
<td>0-24 hours</td>
</tr>
<tr>
<td>White Blood Cell Count</td>
<td>10^9 per liter (X10E+09/L)</td>
<td>0-24 hours</td>
</tr>
<tr>
<td>Sodium</td>
<td>mmol/L</td>
<td>0-24 hours</td>
</tr>
<tr>
<td>Bicarbonate</td>
<td>mmol/L</td>
<td>0-24 hours</td>
</tr>
<tr>
<td>Creatinine</td>
<td>mg/dL</td>
<td>0-24 hours</td>
</tr>
</tbody>
</table>

1 The Measure Authoring Tool (MAT) is a publicly available, web-based tool for measure developers to create eMeasures. The MAT now operates under the direction of the Centers for Medicare and Medicaid Services. For more information on the MAT, please visit: www.emeasuretool.cms.gov.

“expected” used in other types of statistical analyses.

A hospital-wide composite SMR is then created by pooling the service-line SMRs for each hospital using an inverse variance-weighted mean. The inverse variance-weighted mean can be interpreted as a weighted average of all SMRs that takes into account the precision of SMRs. To produce the RSMR, the composite SMR is multiplied by the national observed mortality rate. For additional details regarding the measure specifications to calculate the RSMR, we refer readers to the Hybrid Hospital-Wide (All-Condition, All-Procedural) Risk-Standardized Mortality Measure with Electronic Health Record Extracted Risk Factors: Measure Methodology Report Version 2.0.1103

We also note an important distinguishing factor about hybrid measures as compared to eCQMs: CMS must calculate hybrid measure results to determine hospitals’ risk-adjusted rates relative to national rates using data from all reporting hospitals. With a hybrid measure, hospitals submit data extracted from the EHR, and CMS performs the measure calculations and disseminates results.

During development and testing of the Hybrid HWM measure, we demonstrated that the core clinical data elements were feasibly extracted from hospital EHRs. We also demonstrated that the use of the core clinical data elements to risk-adjust the Hybrid HWM measure results in excellent discrimination (as in, the ability to distinguish patients with a low risk of mortality from those at high risk of mortality) of the measure, as assessed by the c-statistic (c-statistics ranged from 0.82 to 0.95, depending on the service line division. The adjusted intraclass correlation coefficient (ICC), which assesses reliability of the RSMR, also demonstrated high reliability at 0.7748.1104

(9) Data Submission
(a) Reporting and Submission
Timeframes for Proposed Voluntary and Mandatory Reporting Periods

For this measure, we would start with voluntary reporting in response to the MAP recommendation before requiring data submission. We believe that taking an incremental approach to implementing this proposed measure would allow hospitals more time to update and validate their systems, to ensure data mapping is accurate and complete, to implement workflow changes as necessary to better prepare for submitting data, and to increase familiarity with data submission for hybrid quality measures when the Hybrid HWM measure becomes required. We are proposing a stepwise approach in which we would first accept data submissions for the Hybrid HWM measure during a voluntary reporting period. In this period, we would collect data on the Hybrid HWM measure in accordance with, and to the extent permitted by, the HIPAA Privacy and Security Rules (45 CFR parts 160 and 164, Subparts A, C, and E), and other applicable law. This voluntary reporting period would include four quarters of data. Specifically, the voluntary reporting period would run from July 1, 2022 through June 30, 2023. Hospitals that elect to submit data should do so according to the requirements described in this section and in the FY 2021 IPPS/LTCPPPS final rule (85 FR 58940 through 58942). Under previously established policy, hospitals must submit the core clinical data elements and linking variables within 3 months following the end of the applicable reporting period (submissions would be required no later than the first business day 3 months following the end of the reporting period).

We are proposing that mandatory reporting would begin with the reporting period which runs from July 1, 2023 through June 30, 2024, affecting the FY 2026 payment determination and for subsequent years. Hospitals would be required to submit the core clinical data elements and linking variables within 3 months following the end of the applicable reporting period (submissions would be required no later than the first business day 3 months following the end of the reporting period). This proposed mandatory reporting period for the Hybrid HWM measure aligns with that of the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data (NQF #2879) that was finalized in the FY 2020 IPPS/LTCPPPS final rule (84 FR 42465 through 42479).

Notably, while we finalized two voluntary reporting periods for the Hybrid Hospital-Wide Readmission measure (84 FR 42465 through 42479), here we are only proposing to have one voluntary reporting period for the Hybrid HWM measure, which would coincide with the second voluntary reporting period for the Hybrid Hospital-Wide Readmission measure. We believe one voluntary reporting period is sufficient for the Hybrid HWM measure because hospitals will already have two separate opportunities to learn how to report the core clinical data elements for the Hybrid Hospital-Wide Readmission measure, which mostly align with the Hybrid HWM measure core clinical data elements as described previously. Therefore, hospitals would have the opportunity to familiarize themselves with the reporting requirements and process for the core clinical data elements prior to the Hybrid HWM measure voluntary reporting period.

(b) File Type

Beginning with the proposed voluntary reporting period using data from July 1, 2022 through June 30, 2023, we are proposing that hospitals would use Quality Reporting Data Architecture (QRDA) Category I files for each Medicare FFS beneficiary aged between 65 and 94 years. Submission of data to CMS using QRDA files is the current EHR data and measure reporting standard adopted for eCQMs implemented in the Hospital IQR Program (84 FR 42506, 85 FR 58940). This same standard would be used for reporting the core clinical data elements to the CMS data receiving system via the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System). Specifically, to successfully submit the Hybrid HWM measure, hospitals would need to submit the core clinical data elements included in the Hybrid HWM measure, as described in the measure specifications, for all Medicare FFS beneficiaries aged between 65 and 94 years discharged from an acute care hospitalization in the 1-year measurement period (July 1 to June 30 of each year). We note this aligns with the measurement period for the Hybrid HWR measure (84 FR 42465 through 42479).

(c) Data Thresholds

For us to be able to calculate the Hybrid HWM measure results, each hospital would need to report vital signs for 90 percent or more of the hospital admissions for Medicare FFS patients, aged between 65 and 94 years old discharged in the measurement period (as determined from the claims submitted to CMS for admissions that ended during the same reporting period). Vital signs are reported on nearly every adult patient admitted to an acute care hospital and should be

present for nearly 100 percent of discharges (identified in Medicare FFS claims submitted during the same period). In addition, calculating the measure with more than 10 percent of hospital discharges missing these data elements could cause poor reliability of the measure score and instability of hospitals’ results from measurement period to measurement period.

Hospitals would also need to report the laboratory test results for 90 percent or more of hospital admissions for nonsurgical patients, meaning those not included in the surgical divisions of the Hybrid HWM measure. For many patients in the surgical divisions admitted following elective surgery, there are no laboratory values available in the appropriate time window. Therefore, there is no submission requirement for the surgical divisions. However, hospitals should submit lab values for those patients in surgical divisions with lab values available within the appropriate time window. Laboratory values submitted would be included in the risk adjustment model.

(d) Linking Variables and Other Data Elements

Hospitals would also be required to successfully submit the following six linking variables that are necessary in order to merge the core clinical data elements with the CMS claims data to calculate the measure:

- CMS Certification Number;
- Health Insurance Claims Number or Medicare Beneficiary Identifier;
- Date of birth;
- Sex;
- Admission date; and
- Discharge date.

The six linking variables required for linking EHR and claims data should be routinely captured and available for nearly every adult patient admitted to an acute care hospital.

Because these linking variables are required for billing, they should be present for all Medicare FFS patients, and are, therefore, ideally suited to support merging claims and EHR data. However, hospitals would meet Hospital IQR Program requirements if they submit linking variables on 95 percent or more of discharges with a Medicare FFS claim for the same hospitalization during the measurement period.

(10) Public Reporting
(a) Proposed Voluntary Reporting Period

Under this proposal, we would not publicly report data collected during the voluntary reporting period. Hospitals that submit data for this measure during the voluntary reporting period would receive confidential hospital-specific reports that detail submission results from the applicable reporting period, as well as the Hybrid HWM measure results assessed from merged files created by our merging of the EHR data elements submitted by each participating hospital with claims data from the same set of index admissions. Hospitals voluntarily reporting would receive information and instructions on the use of the electronic specifications for this measure, have an opportunity to test extraction and submission of data to CMS, and receive feedback reports from CMS, available via the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System), with details on the success.

(b) Mandatory Reporting

We are proposing mandatory data submission, including public reporting of the Hybrid HWM measure, beginning with the data from the July 1, 2023 through June 30, 2024 reporting period, affecting the FY 2026 payment determination and for subsequent years. We anticipate this data would be included in the July 2025 refresh of the Care Compare website or its successor website.

The EHR data would be merged with the associated claims data, and then Hybrid HWM measure results would be shared with hospitals in the confidential hospital-specific feedback reports planned for the spring of 2025, providing hospitals a 30-day review period prior to public reporting. Thereafter, in subsequent reporting years, we would follow a similar operational timeline for EHR data submissions, availability of hospital specific reports, and public reporting on the Care Compare website or its successor website.

We refer readers to section IX.C.8.f. of the preamble of this proposed rule for more details and proposals related to data submission requirements for hybrid measures, including the Hybrid HWM measure.

We invite public comment on our proposal to adopt the Hybrid Hospital-Wide Mortality Measure with Claims and Electronic Health Record Data (NQF #3502) (Hybrid HWM measure) into the Hospital IQR Program, beginning with voluntary reporting period which would run from July 1, 2022 through June 30, 2023, followed by mandatory reporting beginning with the reporting period which runs July 1, 2023 through June 30, 2024, affecting the FY 2026 payment determination, and subsequent years.


On January 31, 2020, the Secretary of the U.S. Department Health and Human Services declared a public health emergency (PHE) for the United States in response to the global outbreak of SARS-CoV-2, a novel (new) coronavirus that causes a disease named “coronavirus disease 2019” (COVID–19). COVID–19 is a contagious respiratory infection that can cause serious illness and death. Older individuals and those with underlying medical conditions are considered to be at higher risk for more serious complications from COVID–19.

As of April 2, 2021, the U.S. reported over 30 million cases of COVID–19 and over 550,000 COVID–19 deaths.

Hospitals and health systems saw significant surges of COVID–19 patients as community infection levels increased. From December 2, 2020 through January 30, 2021, more than 100,000 Americans were in the hospital with COVID–19 at the same time.

Evidence indicates that COVID–19 primarily spreads when individuals are in close contact with one another.

1108 Centers for Disease Control and Prevention. (2020). CDC COVID Data Tracker. Available at: https://covid.cdc.gov/covid-data-tracker/#cases_casesper100klast7days.
The virus is typically transmitted through respiratory droplets or small particles created when someone who is infected with the virus coughs, sneezes, sings, talks or breathes.1112 Thus, the Centers for Disease Control and Prevention advises that infections mainly occur through exposure to respiratory droplets when a person is in close contact with someone who has COVID–19.1113 Experts believe that COVID–19 spreads less commonly through airborne transmission.1115

The virus is typically transmitted through respiratory droplets or small particles created when someone who is infected with the virus coughs, sneezes, sings, talks or breathes.1112 Thus, the Centers for Disease Control and Prevention advises that infections mainly occur through exposure to respiratory droplets when a person is in close contact with someone who has COVID–19.1113 Experts believe that COVID–19 spreads less commonly through airborne transmission.1115

According to the CDC, those at greatest risk of infection are persons who have had prolonged, unprotected close contact (that is, within 6 feet for 15 minutes or longer) with an individual with confirmed SARS–CoV–2 infection, regardless of whether the individual has symptoms.1116 Although personal protective equipment (PPE) and other infection-control precautions can reduce the likelihood of transmission in health care settings, COVID–19 can spread between healthcare personnel (HCP) and patients, or from patient to patient given the close contact that may occur during the provision of care.1117 The CDC has emphasized that healthcare settings, including long-term care settings, can be high-risk places for COVID–19 exposure and transmission.1118

Vaccination is a critical part of the nation’s strategy to effectively counter the spread of COVID–19 and ultimately helps restore societal functioning.1119 On December 11, 2020, the FDA issued the first Emergency Use Authorization (EUA) for a COVID–19 vaccine in the U.S.1120 Subsequently, the FDA issued EUAs for additional COVID–19 vaccines.1121

The FDA determined that the vaccines met the statutory criteria for issuance of an EUA. The totality of the available data provided clear evidence that the vaccines may be effective to prevent COVID–19, and that the known and potential benefits outweigh the known and potential risks.1122

As part of its national strategy to address COVID–19, the Biden Administration stated on March 25, 2021 that it would work with states and the private sector to execute an aggressive vaccination strategy and has outlined a goal of administering 200 million shots in 100 days.1123 Although the goal of the vaccination campaign is to ensure that every American who wants to receive a COVID–19 vaccine can receive one, Federal agencies recommended that early vaccination efforts focus on those critical to the PHE response, including HCP providing direct care to patients with COVID–19, and individuals at highest risk for developing severe illness from COVID–19.1124 For example, the CDC’s Advisory Committee on Immunization Practices (ACIP) recommended that HCP should be among those individuals prioritized to receive the initial, limited supply of the COVID–19 vaccine given the potential for transmission in health care settings and the need to preserve health care system capacity.1125 Research suggests most states followed this recommendation.1126 and HCP began receiving the vaccine in mid-December of 2020.1127

Frontline healthcare workers, such as those employed in acute care hospitals, are being prioritized for vaccination in most locations. There are approximately 18 million healthcare workers in the United States.1128 As of April 3, 2021, the CDC reported that over 162 million doses of the COVID–19 vaccine had been administered, and approximately 60 million people had received a complete vaccination course.1129 President Biden indicated on April 6, 2021 that the United States has...
sufficient vaccine supply to make every adult eligible to receive a vaccine beginning April 19, 2021.\footnote{1130} We believe it is important to incentivize and track HCP vaccination in acute care facilities through quality measurement to protect health care workers, patients, and caregivers, and to help sustain the ability of hospitals to continue serving their communities throughout the PHE and beyond. Therefore, we are proposing a new measure, COVID–19 Vaccination Coverage Among HCP, beginning with a shortened reporting period from October 2021 through December 2021. The CY 2021 Reporting Period for the FY 2023 Payment Determination is shorter than the reporting period we are proposing for subsequent years to expedite data collection of this measure in response to the current PHE. The measure will assess the proportion of a hospital’s health care workforce that has been vaccinated against COVID–19.

Although at this time data to show the effectiveness of COVID–19 vaccines to prevent asymptomatic infection or transmission of SARS–CoV–2 are limited, we believe hospitals should track the level of vaccination among their HCP as part of their efforts to assess and reduce the risk of transmission of COVID–19 within their facilities. HCP vaccination can potentially reduce illness that leads to work absence and limit disruptions to care.\footnote{1131} Data from influenza vaccination demonstrates that provider uptake of the vaccine is associated with that provider’s recommendation of vaccination to patients,\footnote{1132} and we believe HCP COVID–19 vaccination in hospitals could similarly increase uptake among that patient population.

We also believe that publishing the HCP vaccination rates will be helpful to many patients, including those who are at high-risk for developing serious complications from COVID–19, as they choose facilities from which to seek treatment. Under CMS’ Meaningful Measures Framework, the COVID–19 measure addresses the quality priority of “Promoting Effective Prevention and Treatment of Chronic Disease” through the Meaningful Measures Area of “Preventive Care.”

(2) Overview of Measure

The COVID–19 Vaccination Coverage Among HCP measure is a process measure developed by the CDC to track COVID–19 vaccination coverage among HCP in facilities such as acute care facilities.

(a) Measure Specifications

The denominator is the number of HCP eligible to work in the healthcare facility for at least one day during the submission period, excluding persons with contraindications to COVID–19 vaccination that are described by the CDC.\footnote{1133}

The numerator is the cumulative number of HCP eligible to work in the health care facility for at least one day during the submission period and who received a completed vaccination course against COVID–19 vaccine on or before the date the vaccine was first available or on a repeated interval if revaccination is recommended.\footnote{1134} Vaccination coverage for the purposes of this measure is defined as the estimated percentage of HCP eligible to work at the IPF for at least one day who received a completed vaccination course. A completed vaccination course may require one or more doses depending on the EUA for the specific vaccine used. We refer readers to https://www.cdc.gov/nhsn/nqf/index.html for more details on the measure specifications.

(b) Review by the Measure Applications Partnership (MAP)

The COVID–19 Vaccination Coverage Among HCP measure was included on the publicly available “List of Measures under Consideration for December 21, 2020” (MUC List), a list of measures under consideration for use in various Medicare programs.\footnote{1135} When the MAP Hospital Workgroup convened on January 11, 2021, it reviewed the measures on the MUC List, including the COVID–19 HCP vaccination measure.\footnote{1136} The MAP recognized that the proposed measure represents a promising effort to advance measurement for an evolving national pandemic and that it would bring value to the Hospital IQR Program measure set by providing transparency about an important COVID–19 intervention to help prevent infections in HCP and patients.\footnote{1137} The MAP also stated that collecting information on COVID–19 vaccination coverage among HCP and providing feedback to facilities will allow facilities to benchmark coverage rates and improve coverage in their facility, and that reducing rates of COVID–19 in healthcare personnel may reduce transmission among patients and reduce instances of staff shortages due to illness.\footnote{1138}

In its preliminary review, the MAP Hospital Workgroup did not support this measure for rulemaking, subject to potential for mitigation.\footnote{1139} To mitigate its concerns, the MAP Hospital Workgroup believed that the measure needed well-documented evidence, finalized specifications, testing, and NQF endorsement prior to implementation.\footnote{1140} Subsequently, the MAP Coordination Committee met on January 25, 2021, to review and make a recommendation on the COVID–19 Vaccination Coverage Among HCP measure. In the 2020–2021 MAP Final Recommendations, the MAP offered conditional support for rulemaking contingent on CMS bringing the measure back to the MAP once the specifications are further refined specifically saying that “the incomplete specifications require immediate mitigation and further development should continue.”\footnote{1141} In its final report, the MAP noted that the measure would
add value to the program measure set by providing visibility into an important intervention to limit COVID–19 infections in healthcare personnel and the patients for whom they provide care. The spreadsheet of final recommendations no longer cited concerns regarding evidence, testing, or NQF endorsement.

In response to the MAP final recommendation request that CMS bring the measure back to the MAP once the specifications are further refined, CMS and the CDC met with MAP Coordinating committee on March 15, 2021. CMS and the CDC provided additional information to the MAP Coordinating Committee at that meeting to address vaccine availability, the alignment of the COVID–19 Vaccination Coverage Among HCP as closely as possible with the Influenza HCP vaccination measure (NQF 0431) specifications, and the definition of HCP used in the measure. At this meeting, CMS and the CDC also presented preliminary findings from the testing of the numerator of the COVID–19 Vaccination Coverage Among HCP, which is currently in process. These preliminary findings showed that the numerator data should be feasible and reliable. Testing of the numerator of the number of healthcare personnel vaccinated involves a comparison vaccination data collected by the CDC directly from long-term care facilities (LTCLfs) through NHSN with vaccination data independently reported to the CDC through the Federal pharmacy partnership program for delivering vaccination to LTC facilities. These are two completely independent data collection systems. In initial analyses of the first month of vaccination from December 2020 to January 2021, the number of healthcare workers vaccinated in approximately 1,200 facilities, which had data from both systems the number of healthcare personnel vaccinated was highly correlated between these 2 systems with a correlation coefficient of nearly 90 percent in the second two weeks of reporting. Because of the high correlation across a large number of facilities and high number of HCP within those facilities receiving at least one dose of the COVID–19 vaccine, we believe this data indicates the measure is feasible and reliable for use in the IQR Program.

We value the recommendations of the MAP and considered these recommendations carefully. Section 1890(A)(4) of the Act, as added by section 3014(b) of the Affordable Care Act, requires the Secretary to take into consideration input from multi-stakeholder groups in selecting quality and efficiency measures. While we value input from the MAP, we believe it is important to propose the measure as quickly as possible to address the urgency of the COVID–19 PHE and its impact on vulnerable populations. CMS continues to engage with the MAP to mitigate concerns and appreciates the MAP’s conditional support for the measure.

(3) NQF Endorsement

Under section 1886(s)(4)(D)(i) of the Act, unless the exception of subclause (ii) applies, measures selected for the quality reporting program must have been endorsed by the entity with a contract under section 1890(a) of the Act. The NQF currently holds this contract. Section 1886(s)(4)(D)(ii) of the Act provides an exception to the requirement for NQF endorsement of measures: In the case of a specified area or medical topic determined appropriate by the Secretary for which a feasible and practical measure has not been endorsed by the entity with a contract under section 1890(a) of the Act, the Secretary may specify a measure that is not so endorsed as long as due consideration is given to measures that have been endorsed or adopted by a consensus organization identified by the Secretary.

This measure is not NQF-endorsed and has not been submitted to NQF for endorsement consideration. CMS will consider the potential for future NQF endorsement as part of its ongoing work with the MAP.

Because this measure is not NQF-endorsed, we considered other available measures. We found no other feasible and practical measures on the topic of COVID–19 vaccination among HCP, therefore we believe the exception in section 1186(s)(4)(D)(ii) of the Act applies.

(4) Data Submission and Reporting

Given the time-sensitive nature of this measure in light of the PHE, we are proposing that for the FY 2023 program year, the reporting period would be from October 1, 2021 through December 31, 2021. The reporting period we are proposing is shorter than the reporting period for subsequent years to expedite data collection for this measure in order to respond to the current PHE.

Thereafter, we propose quarterly reporting deadlines for the Hospital IQR Program beginning with the CY 2022 reporting period/FY 2024 payment determination and for subsequent years.

To report this measure, we are proposing that hospitals would collect the numerator and denominator for the COVID–19 HCP vaccination measure for at least one self-selected week during each month of the reporting quarter and submit the data to the NHSN Healthcare Personal Safety (HPS) Component before the quarterly deadline to meet Hospital IQR Program requirements. While we believe that it would be ideal to have HCP vaccination data for every week of each month, we are mindful of the time and resources that hospitals would need to report the data. Thus, in collaboration with the CDC, we determined that data from at least one week of each month would be sufficient to obtain a reliable snapshot of vaccination levels among a hospital’s healthcare personnel while balancing the costs of reporting. If a hospital submits more than one week of data in a month, the most recent week’s data would be used to calculate the measure. For example, if first and third week data are submitted, third week data would be used. If first, second, and fourth week data are submitted, fourth week data would be used. Each quarter, we are proposing that the CDC would calculate a single quarterly COVID–19 HCP vaccination coverage rate for each hospital, which would be calculated by taking the average of the data from the three weekly rates submitted by the hospital for that quarter. If finalized, CMS would publicly report each quarterly COVID–19 HCP vaccination coverage rate as calculated by the CDC.

As described in section IX.C.10.c.2.a., hospitals would report the number of HCP eligible to have worked at the facility during the self-selected week that the hospital reports data for in NHSN (denominator) and the number of those HCP who have received a complete course of a COVID–19 vaccination (numerator) during the same self-selected week.

We invite public comment on our proposal to add a new measure, COVID–19 Vaccination Coverage Among HCP.
Hypoglycemia can cause a wide range of symptoms, including mild symptoms of dizziness, sweating, and confusion to more severe symptoms such as seizure, tachycardia, or loss of consciousness. Most individuals with hypoglycemia recover fully, but in rare instances, hypoglycemia can progress to coma and death. In a study examining clinical outcomes associated with hypoglycemia in hospitalized people with diabetes, patients who had at least one hypoglycemic episode (a blood glucose level of less than 50 mg/dL) were hospitalized 2.8 days longer than patients who did not experience hypoglycemia. Another retrospective cohort study showed hospitalized patients with diabetes who experienced hypoglycemia (a blood glucose level of less than 70 mg/dL) had higher medical costs (by 38.9 percent), longer length of stay (by 3.0 days), and higher odds of being discharged to a skilled nursing facility (odds ratio 1.58: 95 percent Confidence Interval 1.48–1.69) than patients with diabetes without hypoglycemia (p<0.01 for all). Hypoglycemia is associated with higher in-hospital mortality, increased length of stay, and consequently, increased resource utilization.

The rate of severe hypoglycemia (a blood glucose level of less than 40 mg/dL) varies across hospitals, indicating an opportunity for improvement in hypoglycemia among inpatients with diabetes: A national survey of 44 U.S. hospitals. Diabetes Care, 30(2): 367–369.

Unlike other adverse events, hypoglycemia is considered balancing measures if a hospital chooses to report on both measures. This section includes additional details on each of the eCQMs. (1) Proposed Hospital Harm—Severe Hypoglycemia eCQM (NQF#3530e) Beginning With the CY 2023 Reporting Period/FY 2025 Payment Determination (a) Background

Hypoglycemia is defined as a blood glucose level of less than or equal to 70 mg/dL. Hypoglycemic events are among the most common adverse drug events in hospitals.


1166 Classen, DC, Jaser, L., Budnitz, D.S. (2010). Adverse Drug Events Among Hospitalized Medicare Patients: Epidemiology and national estimates from...
MPsMs, which relies on chart-abst rate data, the Hospital Harm—Severe Hypoglycemia eCQM identifies hypoglycemic events using direct extraction of structured data from the EHR. In addition, the National Action Plan for Adverse Drug Event Prevention highlighted the opportunity that exists for healthcare quality reporting measures and meaningful utilization of EHR data to advance prevention of hypoglycemic adverse drug events.\textsuperscript{1168}

To address gaps in measurement, we developed the Hospital Harm—Severe Hypoglycemia eCQM, an outcome measure that would identify the rates of severe hypoglycemic events using direct extraction of structured data from the EHR. We believe this measure will provide reliable and timely measurement of the rate at which severe hypoglycemia events occur in the setting of hospital administration of antihyperglycemic medications during hospitalization, which will create transparency for providers and patients with respect to variation in rates of these events among hospitals. We believe that adopting this measure, which focuses on in-hospital severe hypoglycemic events in the setting of hospital-administered antihyperglycemic medications, has the potential to reduce preventable harm. Therefore, we are proposing to adopt the Hospital Harm—Severe Hypoglycemia eCQM (NQF #3503e) beginning with the CY 2023 reporting period/FY 2025 payment determination.

(b) Overview of Measure

The Hospital Harm—Severe Hypoglycemia eCQM identifies the proportion of patients who experienced a severe hypoglycemic event, defined as a glucose test result of less than 40 mg/dL, within 24 hours of the administration of an antihyperglycemic agent, which indicates harm to a patient.\textsuperscript{1169} The measure is intended to facilitate safer patient care, not only by promoting adherence to recommended clinical guidelines, but also by incentivizing hospitals to track and improve their practices of appropriate dosing and adequate monitoring of patients receiving glycemic control agents. Hospitals could use this measure to track and improve their practices of appropriate dosing and adequate monitoring of patients receiving glycemic control agents, and to avoid patient harm that can lead to increased risk of mortality and disability. This measure addresses the quality priority of “Making Care Safer by Reducing Harm Caused in the Delivery of Care” through the Meaningful Measure Area of “Preventable Healthcare Harm.”\textsuperscript{1170}

This measure is a re-specification of another hypoglycemia measure originally endorsed by the NQF, Glycemic Control—Hypoglycemia (NQF #2363).\textsuperscript{1171} The original measure was not implemented as an eCQM because, at that time, limitations in the MAT did not allow for accurate expression of the Quality Data Model (QDM) components to express the measure logic or syntax as specified.\textsuperscript{1172} Upgrades to the MAT have allowed the measure to be re-specified, producing accurate expression of the measure logic in CQL format to create a measure that can now be implemented.

The Hospital Harm—Severe Hypoglycemia (MUC18–109) measure was included in the publicly available “List of Measures Under Consideration for December 1, 2018.”\textsuperscript{1173} This measure was reviewed by the NQF MAP Hospital Workgroup in December 2018 and received conditional support pending NQF review and endorsement once the revised measure is fully tested.\textsuperscript{1174,1175} MAP stakeholders expressed concerns about the low glucose value (less than 40 mg/dL), the defined lab tests (for example, point-of-care vs. lab values), and the feasibility of the subsequent lab test for glucose within 5 minutes of the low glucose result. MAP stakeholders agreed that severe hypoglycemia events are largely avoidable by careful use of antihyperglycemic medications and blood glucose monitoring. The MAP recommended continuously assessing the low blood glucose threshold of <40mg/dL for defining harm events to assess unintended consequences.\textsuperscript{1176} The MAP Coordinating Committee, which provides direction to the MAP workgroups, concurred with the recommendations of the MAP Hospital Workgroup. The measure was fully tested in six hospitals with two different EHR vendors (Epic and Cerner) at thresholds found to be feasible, reliable, valid, and scientifically acceptable by the NQF Patient Safety Standing Committee and was subsequently endorsed by the NQF Consensus Standards Advisory Committee (CSAC) in the Spring of 2019.\textsuperscript{1177,1178}

(c) Data Sources

The proposed measure is an eCQM that uses data collected through the EHR. The measure is designed to be calculated by the hospitals’ certified electronic health record technology (CEHR) using the patient-level data submitted by hospitals to CMS.

(d) Measure Calculation

The Hospital Harm—Severe Hypoglycemia eCQM is an outcome measure that assesses the rate at which severe hypoglycemia events (blood glucose test result less than 40 mg/dL) caused by hospital administration of medications occur in the acute care hospital setting. The measure calculates the proportion of patients who are at risk and who had a low blood glucose test result (less than 40 mg/dL) and no subsequent confirmatory blood glucose within 5 minutes and in the normal range (greater than 80 mg/dL). Patients at risk include those who had an antihyperglycemic medication administered in the hospital within the 24 hours prior to the hypoglycemia event. The measure counts only one severe hypoglycemia event per patient.
admission. We refer readers to the measure specifications for more detail: https://ecqii.healthit.gov/pre-rulemaking-eh-cah-ecqms.

(e) Measure Cohort

The measure’s cohort includes all patients ages 18 years and older at the start of the encounter, and for whom at least one antihyperglycemic medication was administered during the encounter.

(f) Denominator

The measure denominator includes all patients 18 years or older discharged from an inpatient hospital encounter during the measurement period who were administered at least one antihyperglycemic medication during their hospital stay. The measure includes inpatient admissions for patients admitted from either the emergency department or observation status, who subsequently became an inpatient. There are no denominator exclusions for this measure.

(g) Numerator

The numerator for this measure is the number of hospitalized patients with a blood glucose test result of less than 40 mg/dL (indicating severe hypoglycemia) with no repeat glucose test result greater than 80 mg/dL within 5 minutes of the initial low glucose test, and where an antihyperglycemic medication was administered within 24 hours prior to the low glucose result. We specified a glucose threshold of less than 40 mg/dL to identify only cases of severe hypoglycemia. We excluded a single severe hypoglycemic event with a repeat test of over 80 mg/dL within 5 minutes to avoid counting false positives (for example, from bedside point-of-care tests of capillary blood that might have returned an initial erroneous result).

There are no other numerator exclusions for this measure.

(h) Risk Adjustment

We note risk adjustment is not applicable to the Hospital Harm—Severe Hypoglycemia eCQM. In the case of the Hospital Harm—Severe Hypoglycemia eCQM, there is evidence indicating that most hypoglycemic events of this severity (<40 mg/dL) are avoidable.1179 1180 1181 1182 Although specific patients may be particularly vulnerable to hypoglycemia in certain settings (for example, due to organ failure and not related to administration of diabetic agents), the most common causes are lack of caloric intake, overuse of anti-diabetic agents, or both.1183 1184 1185 These causes are largely controllable in hospital environments, and risk can be reduced by following best practices. We would continue to evaluate the appropriateness of risk adjustment in measure reevaluation.

For more information on the Hospital Harm—Severe Hypoglycemia eCQM, we refer readers to the measure specifications available on the eCQI Resource Center website at: https://ecqii.healthit.gov/pre-rulemaking-eh-cah-ecqms.

We invite public comment on our proposal to adopt the Hospital Harm—Severe Hypoglycemia eCQM for the CY 2023 reporting period/FY 2025 payment determination and for subsequent years. We refer readers to section IX.C.5.d.1. of the preamble of this proposed rule for additional proposals related to eCQM certification requirements under the Hospital IQR Program.

(2) Proposed Hospital Harm—Severe Hyperglycemia eCQM (NQF # 3533e)

Beginning With the CY 2023 Reporting Period/FY 2025 Payment Determination

(a) Background

Hyperglycemia is common among hospitalized patients, especially those with preexisting diabetes.1186 1187

Hyperglycemia can also affect individuals with no prior history of diabetes and may be induced by medications such as steroids, or parenteral (intravenous) or enteral (tube) feeding.1188 Severe hyperglycemia, or an extremely elevated blood glucose level, is associated with a range of harms, including increased in-hospital mortality, infection rates, and hospital length of stay.1189 1190 1191 1192 1193 1194 1195 1196

The rate of severe hyperglycemia varies across hospitals, which suggests there are opportunities for improvement in inpatient glycemic management.1197 1198 Rates of inpatient


severe hyperglycemic events can be considered an indicator for quality of hospital care, since inpatient hyperglycemia is largely avoidable with proper glycemic management.\textsuperscript{1200} \textsuperscript{1201} The use of evidence-based standardized protocols and insulin management protocols have been shown to improve glycemic control and safety.\textsuperscript{1203} \textsuperscript{1204} It should be noted that this measure does not aim to measure overall glucose control in hospitalized patients; rather, our goal is to assess the occurrence and extent of severe hyperglycemia.

(b) Overview of Measure

The intent of this measure is to track and improve practices of appropriate glycemic control and medication management of patients, and to avoid patient harm leading to increased risk of mortality and disability. This eCQM assesses the number of inpatient hospital days with a severe hyperglycemic event among the total qualify hospital days for patients 18 years and older who have a diagnosis of diabetes mellitus and who either received at least one anti-diabetic medication during the hospital admission, or who had an elevated blood glucose level (>200 mg/dL) during their hospital admission. A severe hyperglycemic event is defined as a day in which a patient’s blood glucose result was greater than 300 mg/dL, or a day in which a blood glucose value was not documented, and was preceded by 2 consecutive days during which at least one glucose value was 200 mg/dL or greater.\textsuperscript{1202} This measure addresses the quality priority of “Making Care Safer by Reducing Harm Caused in the Delivery of Care” through the Meaningful Measure Area of “Preventable Healthcare Harm.”\textsuperscript{1206}

The Hospital Harm—Severe Hyperglycemia in Hospitalized Patients (Hospital Harm—Severe Hyperglycemia) (MUC2019–26) measure was included in the publicly available “List of Measures Under Consideration for December 1, 2019.”\textsuperscript{1207} The MAP Hospital Workgroup reviewed the measure in December 2019 and the MAP Coordinating Committee reviewed the measure in January 2020. The measure received conditional support for rulemaking pending NQF endorsement.\textsuperscript{1208} The MAP recommended monitoring the implementation of the measure using the severe high blood glucose threshold of >300mg/dL for defining harm events to assess for unintended measurement consequences, such as hypoglycemia.\textsuperscript{1209} The Hospital Harm—Severe Hyperglycemia measure has been found to be both reliable and valid by the NQF Scientific Methods Panel as well as the NQF Patient Safety Standing Committee in the Fall 2019 measure evaluation cycle.\textsuperscript{1210} \textsuperscript{1211} \textsuperscript{1212} As with all quality measures we develop, testing was performed to confirm the measure feasibility, reliability, and validity of the numerator, using clinical adjudicators who validated the EHR data compared with medical chart-abstracted data. Testing was completed using measure output from the MAT in multiple hospitals, using multiple EHR systems, with the measure shown to be both reliable and valid. In July 2020, the NQF endorsed the Hospital Harm—Severe Hyperglycemia measure.\textsuperscript{1213}

This proposed measure is a re-specification of another hyperglycemia measure originally endorsed by the NQF, Glycemic Control—Hyperglycemia (NQF #2362). Similar to the proposed Glycemic Control—Hyperglycemia (NQF #2363) measure, the original hyperglycemic measure was not implemented as an eCQM because, at that time, limitations in the MAT did not allow for accurate expression of the QDM components to express the measure logic or syntax as specified.\textsuperscript{1214} \textsuperscript{1215} Upgrades to the MAT have allowed the measure to be re-specified, producing accurate expression of the measure logic in CQL format to create a new measure that can now be implemented. We believe that this proposed measure, which focuses specifically on severe hyperglycemic events in the hospital setting, has the potential to reduce preventable harm. Therefore, we are proposing to adopt the Hospital Harm—Severe Hyperglycemia eCQM (NQF # 3533e) beginning with the CY 2023 reporting period/FY 2025 payment determination.

(c) Data Sources

The proposed measure is an eCQM that uses data collected through the EHR. The measure is designed to be calculated by the hospitals’ CEHRT using the patient-level data submitted by hospitals to CMS.

(d) Measure Calculation

The Hospital Harm—Severe Hyperglycemia eCQM is an outcome measure that assesses the number of hospital days with a severe hyperglycemic event among the total qualifying hospital days for at risk inpatient encounters. A severe hyperglycemic event is defined in the measure as a blood glucose result >300 mg/dL, or a day in which a blood glucose value was not documented, and it was preceded by 2 consecutive days where at least one glucose value was >200 mg/dL.

(e) Denominator

The denominator of at-risk encounters includes discharges from an inpatient...
hospital admission for all patients 18 years and older at the start of the measurement period, as well as—

- A diagnosis of diabetes that starts before or during the encounter;
- Administration of at least one dose of insulin or any anti-diabetic medication during the encounter; or
- Presence of at least one blood glucose value >200 mg/dL at any time during the encounter.

The eCQM includes inpatient encounters which began in the emergency department or in observation status.

The denominator is the total number of eligible days across all encounters that match the initial population criteria. This measure does not count the first 24-hour period after admission to the hospital (including the emergency department) or the last time period before discharge, if it was less than 24 hours. By excluding the first 24 hours of admission, the measure allows for correction of severe hyperglycemia that was present on admission. By excluding the last time period before discharge if it was less than 24 hours, the measure accounts for the fact that hospitals may not always be able to check glucose during the last time period, especially if it is only a few hours long. Eligible encounters that exceed 10 days are truncated to equal 10 days.

(f) Numerator

The numerator is the total number of hyperglycemic days across all encounters. Hospital days are measured in 24-hour periods, starting from the time of arrival at the hospital (including the emergency department). Days with a hyperglycemic event are defined as either—

- A day with at least one blood glucose value >300 mg/dL; or
- A day in which a blood glucose value was not documented, and it was preceded by 2 consecutive days where at least one glucose value is >=200 mg/dL.

The measure does not count >300 mg/dL events the first 24-hour period after hospital arrival for admitted patients (including the emergency department) or the last time period before discharge, if it was less than 24 hours.

(g) Risk Adjustment

We note risk adjustment is not applicable to the Hospital Harm—Severe Hyperglycemia eCQM. In the case of the Hospital Harm—Severe Hyperglycemia eCQM, there is evidence indicating that most hyperglycemic events of this severity (>300 mg/dL) are avoidable. The rate of inpatient severe hyperglycemia events can be considered a marker for quality of hospital care, since inpatient severe hyperglycemia is largely avoidable with proper glycemic management. We would continue to evaluate the appropriateness of risk adjustment in measurement reevaluation.

For more information on the Hospital Harm—Severe Hyperglycemia eCQM, we refer readers to the measure specifications available on the eCQI Resource Center website at: https://ecqi.healthit.gov/pre-rulemaking-ehcahc-eqcms.

We invite public comment on our proposal to adopt the Hospital Harm—Severe Hyperglycemia eCQM for the CY 2023 reporting period/FY 2025 payment determination and for subsequent years. We refer readers to section IX.F.5.d.2 of the preamble of this proposed rule for a similar proposal to adopt the Hospital Harm—Severe Hyperglycemia eCQM under the Medicare Promoting Interoperability Program. We also refer readers to section IX.C.6.e.2. of the preamble of this proposed rule for additional proposals related to eCQM certification requirements under the Hospital IQR Program.

6. Proposed Removal of Five Hospital IQR Program Measures

We refer readers to the FY 2016 IPPS/LTC PPS final rule (80 FR 49641 through 49643) and the FY 2019 IPPS/LTC PPS final rule (83 FR 41540 through 41544) for a discussion of our current measure removal factors. In this proposed rule, we are proposing to remove five measures from the Hospital IQR Program across the FY 2023 and FY 2026 payment determinations as further discussed in this rule.

a. Proposal To Remove One Measure Under—Removal Factor 3, Availability of a More Broadly Applicable Measure (Across Settings, Populations, or the Availability of a Measure That Is More Proximal in Time to Desired Patient Outcomes for the Particular Topic):

- The Death Among Surgical Inpatients With Serious Treatable Complications (CMS PSI–04)

The Death Among Surgical Inpatients With Serious Treatable Complications (CMS PSI–04) measures in-hospital deaths per 1,000 elective surgical discharges, among 18 through 89 years or obstetric patients with serious treatable complications (shock/cardiac arrest, sepsis, pneumonia, deep vein thrombosis/pulmonary embolism or gastrointestinal hemorrhage/acute ulcer). We refer readers to the FY 2009 IPPS/LTC PPS final rule where we adopted the Death Among Surgical Patients With Serious Treatable Complications (CMS PSI–04) measure for the FY 2010 payment determination and subsequent years (73 FR 48607) for more detail on this measure. In the FY 2011 IPPS/LTC PPS final rule, under the RHQDAPU Program (the former title of the Hospital IQR Program), we harmonized two FY 2010 RHQDAPU Program quality measures, combining PSI–04 and “Nursing Sensitive—Failure to rescue” into a single measure renamed Death Among Surgical Inpatients With Serious Treatable Complications (75 FR 50182). The CMS PSI–04 measure is a claims-based measure which uses claims and administrative data to calculate the measure without any additional data collection from hospitals.

In this proposed rule, we are proposing to remove this measure beginning with the CY 2021 reporting period/FY 2023 payment determination, because of the availability of a more broadly applicable measure—Factor 3. Specifically, in section IX.C.5.b. of the preamble of this proposed rule, we propose the Hybrid HWM measure (NQF #3502). We refer readers to section IX.C.5.b. for further discussion on the Hybrid HWM measure, including data sources, core clinical data elements, and measure calculation.

The Hybrid HWM measure captures more conditions or procedures than CMS PSI–04. The Hybrid HWM measure also captures mortality within 30 days of hospital admission for most conditions or procedures, compared to deaths for surgical discharges (e.g., pregnancy, childbirth, and puerperium) as measured by CMS PSI–04. While the
CMS PSI–04 measure is claims-based, the Hybrid HWM measure uses a hybrid of claims and clinical data elements from the EHR. As a result, we believe the Hybrid HWM measure is a more broadly applicable measure because it incorporates a much larger set of conditions and procedures and moves toward greater use of EHR data for quality measurement. We note that removal of the CMS PSI–04 measure is contingent on the adoption of the Hybrid HWM measure.

We invite public comment on our proposal to remove the Death Among Surgical Inpatients with Serious Treatable Complications (CMS PSI–04) measure beginning with the FY 2023 payment determination.

b. Proposal To Remove One Measure Under—Removal Factor 5, Availability of a Measure That Is More Strongly Associated With Desired Patient Outcomes for the Particular Topic: Exclusive Breast Milk Feeding (PC–05) (NQF #0480)

The Exclusive Breast Milk Feeding (PC–05) eCQM assesses the number of newborns exclusively fed breast milk during the newborn’s entire hospitalization. For more details on the PC–05 measure, we refer readers to the FY 2015 IPPS/LTCH PPS final rule in which we adopted the measure for the Hospital IQR Program (79 FR 50242 through 50243). We are proposing to remove PC–05 beginning with the CY 2024 reporting period/FY 2026 payment determination under Factor 5—the availability of a measure that is more strongly associated with desired patient outcomes for the particular topic.

Specifically, in keeping with our focus on maternal health, we are proposing to adopt the Maternal Morbidity Structural Measure for inclusion in the Hospital IQR Program beginning with a shortened CY 2021 reporting period/FY 2023 payment determination. We refer readers to section IX.C.5.a. of the preamble of this proposed rule for more detail on that proposed measure. We believe that the proposed Maternal Morbidity structural measure is more strongly aligned with our current focus on maternal health than the PC–05 eCQM. The proposed Maternal Morbidity Structural Measure focuses on determining hospital participation in a State or national Perinatal Quality Improvement (QI) Collaborative initiative and implementation of patient safety practices or bundles within that QI initiative, which includes breastfeeding, while PC–05 targets only breastfeeding, a less holistic area of maternal health. Improving maternal health and the quality of maternal care is a priority for CMS, and we believe that the proposed Maternal Morbidity Structural Measure will help achieve this desired outcome more directly than PC–05.

Further, we believe that removing PC–05 would produce a more harmonized and streamlined measure set (83 FR 41539 through 41540). Removing this measure from the Hospital IQR Program under removal Factor 5 supports the Meaningful Measures Framework because it helps the Hospital IQR Program reach a parsimonious set of the most meaningful measures available to track patient outcomes and impact (83 FR 41567). One of the Hospital IQR Program’s primary benefits to patients and the public is its ability to collect and publicly report data for patients to use in making decisions about their care. At the same time, maintaining an unnecessarily large or complicated measure set including measures that may not be as meaningful to patients hampers the Hospital IQR Program’s effectiveness at presenting valuable data in a useful manner (83 FR 41544).

Replacing this measure with one that is more strongly associated with broader maternal health goals aligns with the Meaningful Measures Framework and allows us to continue to effectively promote quality care.

We note that, in alignment with our focus on encouraging quality of care in maternal health, we proposed to include the Maternal Morbidity Structural Measure as early as is practicable. Due to operational procedures required to remove PC–05, however, there would be overlap with the proposed Maternal Morbidity Structural Measure in the program until PC–05 would be removed. The proposed Maternal Morbidity Structural Measure would have a reporting period beginning on October 1, 2021 through December 31, 2021, affecting the FY 2023 payment determination, which would overlap with PC–05 until its proposed removal for the CY 2024 reporting period/FY 2026 payment determination. We note that removal of PC–05 measure is contingent on the adoption of the Maternal Morbidity Structural Measure.

We invite public comment on our proposal to remove the Exclusive Breast Milk Feeding (PC–05) measure beginning with the CY 2024 reporting period/FY 2026 payment determination.

c. Proposal To Remove Three Measures Under—Removal Factor 8, Costs Associated With A Measure Outweigh the Benefit of its Continued Use in the Program

We are proposing to remove three measures under removal Factor 8, “Costs Associated with a Measure Outweigh the Benefit of its Continued Use in the Program.” These three measures are Admit Decision Time to ED Departure Time for Admitted Patients (ED–2); Anticoagulation Therapy for Atrial Fibrillation/Flutter (STK–03); and Discharged on Statin Medication (STK–06).

(1) Admit Decision Time to ED Departure Time for Admitted Patients (ED–2)

In the FY 2016 IPPS/LTCH PPS final rule, we adopted the Admit Decision Time to ED Departure Time for Admitted Patients (ED–2) eCQM as an option from which hospitals could choose to report to meet the self-selected eCQM data reporting requirements for the FY 2018 payment determination. We refer readers to the FY 2016 IPPS/LTCH PPS final rule for more detail on this measure (80 FR 49693 through 49698). The ED–2 eCQM evaluates the median time in minutes from admit decision time to time of departure from the emergency department (ED) for ED patients admitted to inpatient status.

A recently published systematic review by Boudi, et al. of 12 individual studies examined the association between ED boarding time (the time between the admission decision and departure from the ED) and in hospital mortality (IHM). Although the authors noted a tendency toward an association, they did not find strong evidence for an association between ED boarding and IHM. Six of the studies reviewed showed an association between ED boarding time and IHM, five showed no association, and the remaining study demonstrated an association for patients admitted to non-ICU wards and no association for patients admitted to ICU status. The authors indicated there is variability in what is considered a cut-off time to define extended ED boarding time or prolonged ED LOS and stated that, in the U.S., prolonged ED visits have been defined as over 6 hours.

The authors note there is a lack of a unique cut-off time to define EDB and state that, “[f]urther well-controlled, international multicenter studies are needed to demonstrate . . . whether there is a
In several of the studies in this systematic review demonstrating an association between ED boarding and IHM, the researchers compared mortality between patients with a boarding time period of less than 6 hours and those with a boarding time period equal or greater than 6 hours (360 minutes). We compared these timeframes to hospital performance data for the chart-abstracted version of ED–2, using the most recent data in the Care Compare downloadable data base for timely and effective care from January 1, 2019 through December 31, 2019. Those results show that the national average for the ED–2 median reported boarding times is 101 minutes; the ED–2 90th percentile is 31 minutes; and only 37 out of 4,028 (0.92 percent) hospitals that reported on ED–2 had an ED–2 median time equal to or greater than 360 minutes. Thus, the Care Compare data indicate that most hospitals do not report median boarding times that correspond with this 6-hour cutoff.

Boudi’s systematic review is consistent with previous research finding conflicting results related to the association between ED crowding and inpatient mortality. For example, a study by Derose, et al. found no association between measures indicating ED crowding and inpatient mortality after controlling for patient characteristics.1226

In light of the inconsistency in research findings, we have reassessed the value of retaining the ED–2 eCQM in the Hospital IQR Program and are proposing to remove this measure, beginning with the CY 2024 reporting period/FY 2026 payment determination, under Factor 8, “The costs associated with a measure outweigh the benefit of its continued use in the program.” Pursuant to removal Factor 8, we strive to ensure that the Hospital IQR Program measure set continues to promote improved health outcomes for beneficiaries while minimizing the overall costs associated with the program (83 FR 41540). We believe that costs are multifaceted and include not only the burden associated with reporting, but also the costs associated with implementing and maintaining the program. For healthcare providers, the costs include maintaining the general administrative knowledge needed to report this measure as well as the costs associated with implementing and maintaining measure specifications in hospitals’ EHR systems for all the eCQMs available for use in the Hospital IQR Program (83 FR 41568). We also recognize that CMS expends resources when maintaining information collection systems and analyzing reported data. Removing these measures would reduce provider and program costs alike. Given that recent studies indicate an inconclusive association between ED boarding times and adverse outcomes such as in-hospital mortality, the cost of the current expenditure outweighs the benefit of continued used of ED–2. Additionally, due to the operational limitations of introducing and removing eCQMs associated with the lifecycle of such measures, we propose to remove this measure beginning with the CY 2024 reporting period/FY 2026 payment determination.

We invite public comments on our proposal to remove Admit Decision Time to ED Departure Time for Admitted Patients (ED–2) measure beginning with the CY 2024 reporting period/FY 2026 payment determination.

(2) Stroke Related Electronic Clinical Quality Measures (eCQMs)

We are proposing to remove two stroke-related eCQMs:

• Anticoagulation Therapy for Atrial FibrillationFlutter (STK–03) (adopted in the set of eCQMs from which hospitals self-select for Hospital IQR Program reporting in the FY 2016 IPPS/LTCH PPS final rule, 80 FR 49693 through 49698); and

• Discharged on Statin Medication (STK–06) (adopted in the set of eCQMs from which hospitals self-select for Hospital IQR Program reporting in the FY 2016 IPPS/LTCH PPS final rule, 80 FR 49693 through 49698).

We are proposing to remove STK–03 and STK–06 under removal Factor 8, “the costs associated with a measure outweigh the benefit of its continued use in the program.” Under removal Factor 8, we strive to ensure that the Hospital IQR Program measure set aligns with the Meaningful Measures Framework goal of promoting improved health outcomes for beneficiaries while minimizing the overall costs associated with the program (83 FR 41540). We assessed the relative costs and benefits for both measures as described in detail in this rule.

As we assessed the relative benefits of these measures, we recognized that our measure set contains a high proportion of stroke related eCQMs. As previously finalized in the FY 2021 IPPS/LTCH PPS final rule (85 FR 58931), we have a total of nine eCQMs, four of which are stroke related. In order to achieve a more parsimonious measure set, we believe it is appropriate to reduce the portfolio of stroke-related eCQMs. We continue to believe that ensuring appropriate pharmacotherapy for stroke patients is an important topic and we will continue to work with relevant stakeholders to identify measures of quality and advance improved health outcomes for stroke patients. Within the eCQM portfolio of stroke measures, we identified STK–03 and STK–06 as candidates for removal based on specific considerations described in this rule.

For STK–03 specifically, the patient population (patients prescribed anticoagulation therapy, which is a type of antithrombotic therapy), can be considered a subgroup of the global population of ischemic stroke patients captured under the STK–02 eCQM, which measures the number of patients prescribed antithrombotic therapy at hospital discharge.1227 Further, the results of our internal review of the CY 2019 eCQM reporting indicate that fewer hospitals chose to report STK–03 than any of the other remaining three stroke-related eCQMs. In contrast, STK–02 was the most reported of the four stroke-related eCQMs for the CY 2019 eCQM reporting period. Though the STK–02 eCQM does not provide the same level of granularity as the STK–03 eCQM, we believe that the low reporting rate of STK–03 coupled with the overlap in patient populations means that the benefits of maintaining both measures in the Hospital IQR Program measure set has been reduced. Given these reduced benefits, we now believe that the costs associated with this measure outweigh the benefits of retaining this measure in the Hospital IQR Program measure set. For STK–06 specifically, which assesses percentage of patients discharged on statin medication, we found that the updated 2019 American Heart Associations AHA/American Stroke Association ASA stroke guidelines on antiplatelet treatment indicate that STK–06 is not the most suitable measure for improving patient outcomes in stroke treatment during the

1225 The chart-abstracted version of ED–2 was finalized for removal in the FY 2019 IPPS/LTCH PPS final rule for the FY 2022 payment determination (83 FR 41567).


We believe the body of evidence supporting the benefits of retaining STK–06 has been weakened by the findings of the AHA/ASA stroke guidelines. This is because the strongest recommendations and quality of evidence are for administration of aspirin in patients with Acute Ischemic Stroke within 24 to 48 hours after onset. Furthermore, there is only moderate quality evidence to continue STK–06, the measure of ischemic stroke patients who are prescribed or continue to take statin medication at hospital discharge. Lastly, other measures like STK–02, Discharged on Antithrombotic Therapy, and STK–05, Antithrombotic Therapy by The End of Hospital Day 2, already support our efforts to improve care and patient outcomes in the acute period. Taken together we believe that the benefit of retaining STK–06 has been reduced. Given these reduced benefits, we now believe that the costs associated with this measure outweigh the benefits of retaining this measure in the Hospital IQR Program measure set.

We believe that costs are multifaceted and include the burden associated with reporting as well as costs related to program implementation and maintenance, which are applicable both to providers and CMS (83 FR 41540). Removing STK–03 and STK–06 under Factor 8 would eliminate costs associated with implementing and maintaining these measures for the Hospital IQR Program. For healthcare providers, the costs associated with STK–03 and STK–06 include maintaining the general administrative knowledge needed to report these measures as well as the costs associated with implementing and maintaining measure specifications in hospitals’ EHR systems for all the eCQMs available for use in the Hospital IQR Program (83 FR 41568). We also recognize that CMS expends resources when maintaining information collection systems and analyzing reported data. Removing these measures would reduce provider and program costs alike.

In summary, removing STK–03 and STK–06 would reduce the costs associated with them in the Hospital IQR Program while still maintaining an efficient measure set that continues to effectively promote quality care. Removing STK–03 and STK–06 supports using a parsimonious set of the most meaningful measures available to track patient outcomes and impact, in keeping with the Meaningful Measures Framework (83 FR 41567). Maintaining an unnecessarily large or complicated measure set including measures that are not meaningful to consumers and caregivers hampers the Hospital IQR Program’s effectiveness (83 FR 41544). Additionally, due to the operational feasibility of introducing and removing eCQMs, we propose to remove both measures beginning with the CY 2024 reporting period/FY 2026 payment determination.

We invite public comment on our proposal to remove both the Anticoagulation Therapy for Atrial Fibrillation/Flutter (STK–03) and the Discharged on Statin Medication (STK–06) measures beginning with the CY 2024 reporting period/FY 2026 payment determination.

8. Summary of Previously Finalized and Proposed Hospital IQR Program Measures

a. Summary of Previously Finalized and Proposed Hospital IQR Program Measures for the FY 2023 Payment Determination

This table summarizes the previously finalized and newly proposed Hospital IQR Program measure set for the FY 2023 Payment Determination:

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NOF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP Influenza Vaccination</td>
<td>Influenza Vaccination Coverage Among Healthcare Personnel</td>
<td>0431</td>
</tr>
<tr>
<td>HCP COVID-19 Vaccination*</td>
<td>COVID-19 Vaccination Coverage Among Health Care Personnel</td>
<td>N/A</td>
</tr>
<tr>
<td>MORT-30-STK</td>
<td>Hospital 30-Day, All-Cause, Risk Standardized Mortality Rate Following Acute Ischemic Stroke</td>
<td>N/A</td>
</tr>
<tr>
<td>READM-30-HWR**</td>
<td>Hospital-Wide All-Cause Unplanned Readmission Measure (HWR)</td>
<td>1789</td>
</tr>
<tr>
<td>AMI Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Acute Myocardial Infarction</td>
<td>2881</td>
</tr>
<tr>
<td>HF Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Heart Failure</td>
<td>2880</td>
</tr>
<tr>
<td>PN Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Pneumonia</td>
<td>2882</td>
</tr>
<tr>
<td>AMI Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care for Acute Myocardial Infarction (AMI)</td>
<td>2431</td>
</tr>
<tr>
<td>HF Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care for Heart Failure (HF)</td>
<td>2436</td>
</tr>
<tr>
<td>PN Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-day Episode-of-Care For Pneumonia</td>
<td>2579</td>
</tr>
</tbody>
</table>

### Measures for the FY 2024 Payment Determination

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>THA/TKA Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with an Episode-of-Care for Primary Elective Total Hip Arthroplasty and/or Total Knee Arthroplasty</td>
<td>N/A</td>
</tr>
<tr>
<td>PC-01</td>
<td>Elective Delivery</td>
<td>0469</td>
</tr>
<tr>
<td>Sepsis</td>
<td>Severe Sepsis and Septic Shock: Management Bundle (Composite Measure)</td>
<td>0500</td>
</tr>
</tbody>
</table>

#### Chart-Absent Clinical Process of Care Measures

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal Morbidity***</td>
<td>Maternal Morbidity Structural Measure</td>
</tr>
<tr>
<td>ED-2</td>
<td>Admit Decision Time to ED Departure Time for Admitted Patients</td>
</tr>
<tr>
<td>PC-05</td>
<td>Exclusive Breast Milk Feeding</td>
</tr>
<tr>
<td>Safe Use of Opioids****</td>
<td>Safe Use of Opioids – Concurrent Prescribing</td>
</tr>
<tr>
<td>STK-02</td>
<td>Discharged on Antithrombotic Therapy</td>
</tr>
<tr>
<td>STK-03</td>
<td>Anticoagulation Therapy for Atrial Fibrillation/Flutter</td>
</tr>
<tr>
<td>STK-05</td>
<td>Antithrombotic Therapy by the End of Hospital Day Two</td>
</tr>
<tr>
<td>STK-06</td>
<td>Discharged on Statin Medication</td>
</tr>
<tr>
<td>VTE-1</td>
<td>Venous Thromboembolism Prophylaxis</td>
</tr>
<tr>
<td>VTE-2</td>
<td>Intensive Care Unit Venous Thromboembolism Prophylaxis</td>
</tr>
</tbody>
</table>

#### EHR-based Clinical Process of Care Measures (that is, Electronic Clinical Quality Measures (eCQMs))

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCAHPS</td>
<td>Hospital Consumer Assessment of Healthcare Providers and Systems Survey (including Care Transition Measure)</td>
</tr>
</tbody>
</table>

* The COVID-19 Vaccination Coverage Among Health Care Personnel measure is being proposed for adoption in this proposed rule. We refer readers to section IX.C.5.c. of the preamble of this proposed rule for more detail.

** In the FY 2020 IPPS/LTCH PPS final rule, we finalized our proposal to remove the claims-only Hospital-Wide All-Cause Unplanned Readmission (HWR claims-only) measure (NQF #1789) and to replace it with the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data (NQF #2879) (Hybrid HWR measure), beginning with the FY 2026 payment determination (84 FR 42465 through 42481). The removal of the HWR claims-only measure was contingent on our finalizing our proposal to adopt the Hybrid HWR measure. We finalized our proposal to align the removal of the HWR claims-only measure such that its removal aligns with the end of the finalized 2-year voluntary reporting period and the beginning of the finalized mandatory data submission and public reporting of the Hybrid HWR measure.

*** The Maternal Morbidity Structural Measure is being proposed for adoption in this proposed rule. We refer readers to section IX.C.5.a. of the preamble of this proposed rule for more detail.

**** Finalized in the FY 2020 IPPS/LTCH PPS final rule to add Safe Use of Opioids – Concurrent Prescribing to the eCQM measure set, beginning with the CY 2021 reporting period/FY 2023 payment determination with a clarification and update (84 FR 42449 through 42459).

---

b. Summary of Previously Finalized and Proposed Hospital IQR Program Measures for the FY 2024 Payment Determination

This table summarizes the previously finalized and newly proposed Hospital IQR Program measure set for the FY 2024 Payment Determination and Subsequent Years:

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP Influenza Vaccination</td>
<td>Influenza Vaccination Coverage Among Healthcare Personnel</td>
<td>0431</td>
</tr>
<tr>
<td>HCP COVID-19 Vaccination*</td>
<td>COVID-19 Vaccination Coverage Among Health Care Personnel</td>
<td>N/A</td>
</tr>
<tr>
<td>MORT-30-STK</td>
<td>Hospital 30-Day, All-Cause, Risk Standardized-Mortality Rate Following Acute Ischemic Stroke</td>
<td>N/A</td>
</tr>
<tr>
<td>READM-30-HWR**</td>
<td>Hospital-Wide All-Cause Unplanned Readmission Measure (HWR)</td>
<td>1789</td>
</tr>
<tr>
<td>AMI Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Acute Myocardial Infarction</td>
<td>2881</td>
</tr>
<tr>
<td>HFr Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Heart Failure</td>
<td>2880</td>
</tr>
<tr>
<td>PN Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Pneumonia</td>
<td>2882</td>
</tr>
<tr>
<td>AMI Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care for Acute Myocardial Infarction (AMI)</td>
<td>2431</td>
</tr>
<tr>
<td>HFr Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care For Heart Failure (HFr)</td>
<td>2436</td>
</tr>
</tbody>
</table>
### Measures for the FY 2024 Payment Determination and Subsequent Years

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-day Episode-of-Care For Pneumonia</td>
<td>2579</td>
</tr>
<tr>
<td>THA/TKA Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with an Episode-of-Care for Primary Elective Total Hip Arthroplasty and/or Total Knee Arthroplasty</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### Chart-Abstracted Clinical Process of Care Measures

| PC-01 | Elective Delivery | 0469 |
| Sepsis | Severe Sepsis and Septic Shock: Management Bundle (Composite Measure) | 0500 |

#### Structural Measures

| Maternal Morbidity*** | Maternal Morbidity Structural Measure | N/A |

| ED-2 | Admit Decision Time to ED Departure Time for Admitted Patients | 0497 |
| PC-05 | Exclusive Breast Milk Feeding | 0480 |
| Safe Use of Opioids**** | Safe Use of Opioids – Concurrent Prescribing | 3316e |
| STK-02 | Discharged on Antithrombotic Therapy | 0435 |
| STK-03 | Anticoagulation Therapy for Atrial Fibrillation/Flutter | 0436 |
| STK-05 | Antithrombotic Therapy by the End of Hospital Day Two | 0438 |
| STK-06 | Discharged on Statin Medication | 0439 |
| VTE-1 | Venous Thromboembolism Prophylaxis | 0371 |
| VTE-2 | Intensive Care Unit Venous Thromboembolism Prophylaxis | 0372 |

#### EHR-based Clinical Process of Care Measures (that is, Electronic Clinical Quality Measures (eCQMs))

| ED-2 | Admit Decision Time to ED Departure Time for Admitted Patients | 0497 |
| PC-05 | Exclusive Breast Milk Feeding | 0480 |
| Safe Use of Opioids**** | Safe Use of Opioids – Concurrent Prescribing | 3316e |
| STK-02 | Discharged on Antithrombotic Therapy | 0435 |
| STK-03 | Anticoagulation Therapy for Atrial Fibrillation/Flutter | 0436 |
| STK-05 | Antithrombotic Therapy by the End of Hospital Day Two | 0438 |
| STK-06 | Discharged on Statin Medication | 0439 |
| VTE-1 | Venous Thromboembolism Prophylaxis | 0371 |
| VTE-2 | Intensive Care Unit Venous Thromboembolism Prophylaxis | 0372 |

#### Patient Experience of Care Survey Measures

| HCAHPS | Hospital Consumer Assessment of Healthcare Providers and Systems Survey (including Care Transition Measure) | 0166 |

* The COVID-19 Vaccination Coverage Among Health Care Personnel measure is being proposed for adoption in this proposed rule. We refer readers to section IX.C.5.c. of the preamble of this proposed rule for more detail.

** In the FY 2020 IPPS/LTCI PPS final rule, we removed the claims-only Hospital-Wide All-Cause Unplanned Readmission (HWR claims-only) measure (NQF #1789) and replaced it with the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data (NQF #2879) (Hybrid HWR measure), beginning with the FY 2026 payment determination (84 FR 42465 through 42481). The removal of the HWR claims-only measure was contingent on our finalizing our proposal to adopt the Hybrid HWR measure. We finalized our proposal to align the removal of the HWR claims-only measure such that its removal aligns with the end of the finalized 2-year voluntary reporting period and the beginning of the finalized mandatory data submission and public reporting of the Hybrid HWR measure.

*** The Maternal Morbidity Structural Measure is being proposed for adoption in this year’s proposed rule. We refer readers to section IX.C.5.a. of the preamble of this proposed rule for more detail.

**** Reporting on the Safe Use of Opioids – Concurrent Prescribing eCQM is mandatory for the FY 2024 payment determination and subsequent years.

c. Summary of Previously Finalized and Proposed Hospital IQR Program Measures for the FY 2025 Payment Determination

This table summarizes the previously finalized and newly proposed Hospital IQR Program measure set for the FY 2025 payment determination:
<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP Influenza Vaccination</td>
<td>Influenza Vaccination Coverage Among Healthcare Personnel</td>
<td>0431</td>
</tr>
<tr>
<td>HCP COVID-19 Vaccination*</td>
<td>COVID-19 Vaccination Coverage Among Health Care Personnel</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### National Healthcare Safety Network Measures

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>MORT-30-STK</td>
<td>Hospital 30-Day, All-Cause, Risk Standardized-Mortality Rate Following Acute Ischemic Stroke</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Claims-Based Mortality Measures

### Claims-Based Coordination of Care Measures

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>READM-30-HWR**</td>
<td>Hospital-Wide All-Cause Unplanned Readmission Measure (HWR)</td>
<td>1789</td>
</tr>
<tr>
<td>AMI Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Acute Myocardial Infarction</td>
<td>2881</td>
</tr>
<tr>
<td>HF Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Heart Failure</td>
<td>2880</td>
</tr>
<tr>
<td>PN Excess Days</td>
<td>Excess Days in Acute Care after Hospitalization for Pneumonia</td>
<td>2882</td>
</tr>
</tbody>
</table>

### Claims-Based Payment Measures

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMI Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care for Acute Myocardial Infarction (AMI)</td>
<td>2431</td>
</tr>
<tr>
<td>HF Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care For Heart Failure (HF)</td>
<td>2436</td>
</tr>
<tr>
<td>PN Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with a 30-day Episode-of-Care For Pneumonia</td>
<td>2579</td>
</tr>
<tr>
<td>THA/TKA Payment</td>
<td>Hospital-Level, Risk-Standardized Payment Associated with an Episode-of-Care for Primary Elective Total Hip Arthroplasty and/or Total Knee Arthroplasty</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Claims and Electronic Data Measures
d. Summary of Previously Finalized and Proposed Hospital IQR Program Measures for the FY 2026 Payment Determination

This table summarizes the previously finalized and newly proposed Hospital IQR Program measure set for the FY 2026 payment determination:

<table>
<thead>
<tr>
<th>Measures for the FY 2025 Payment Determination and Subsequent Years</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Short Name</strong></td>
</tr>
<tr>
<td>Hybrid HWM***</td>
</tr>
<tr>
<td>PC-01</td>
</tr>
<tr>
<td>Sepsis</td>
</tr>
<tr>
<td><strong>Chart-Abstracted Clinical Process of Care Measures</strong></td>
</tr>
<tr>
<td>PC-01</td>
</tr>
<tr>
<td>PC-03</td>
</tr>
<tr>
<td>STK-02</td>
</tr>
<tr>
<td>STK-05</td>
</tr>
<tr>
<td>STK-06</td>
</tr>
<tr>
<td>VTE-1</td>
</tr>
<tr>
<td>VTE-2</td>
</tr>
<tr>
<td>HH-01*****</td>
</tr>
<tr>
<td>HH-02*****</td>
</tr>
<tr>
<td><strong>Structural Measures</strong></td>
</tr>
<tr>
<td>Maternal Morbidity****</td>
</tr>
<tr>
<td>EHR-based Clinical Process of Care Measures (that is, Electronic Clinical Quality Measures [eCQMs])</td>
</tr>
<tr>
<td>ED-2</td>
</tr>
<tr>
<td>PC-05</td>
</tr>
<tr>
<td>Safe Use of Opioids*****</td>
</tr>
<tr>
<td>STK-02</td>
</tr>
<tr>
<td>STK-03</td>
</tr>
<tr>
<td>STK-05</td>
</tr>
<tr>
<td>STK-06</td>
</tr>
<tr>
<td>VTE-1</td>
</tr>
<tr>
<td>VTE-2</td>
</tr>
<tr>
<td>HH-01*****</td>
</tr>
<tr>
<td>HH-02*****</td>
</tr>
<tr>
<td><strong>Patient Experience of Care Survey Measures</strong></td>
</tr>
<tr>
<td>HCAHPS</td>
</tr>
</tbody>
</table>

* The COVID-19 Vaccination Coverage Among Health Care Personnel measure is being proposed for adoption in this proposed rule. We refer readers to section IX.C.5.c. of the preamble of this proposed rule for more detail.

** In the FY 2020 IPPS/LTPAC final rule, we removed the claims-only Hospital-Wide All-Cause Unplanned Readmission (HWR claims-only) measure (NQF #1789) and replaced it with the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data (NQF #2879) (Hybrid HWR measure), beginning with the FY 2026 payment determination (84 FR 42465 through 42481). The removal of the HWR claims-only measure was contingent on our finalizing our proposal to adopt the Hybrid HWR measure. We finalized our proposal to align the removal of the HWR claims only measure such that its removal aligns with the end of the finalized 2-year voluntary reporting period and the beginning of the finalized mandatory data submission and public reporting of the Hybrid HWR measure.

*** In this proposed rule, we are proposing to adopt the Hybrid Hospital-Wide All-Cause Risk Standardized Mortality (HWM) measure beginning with one voluntary reporting period (July 1, 2023-June 30, 2023), followed by mandatory reporting beginning with the July 1, 2023-June 30, 2024 reporting period, impacting the FY 2026 payment determination.

**** The Maternal Morbidity Structural Measure is being proposed for adoption in this proposed rule. We refer readers to section IX.C.5.a. of the preamble of this proposed rule for more detail.

***** Reporting on the Safe Use of Opioids measure is mandatory for the FY 2024 payment determination and subsequent years.

****** The Hospital Harm—Severe Hypoglycemia Measure and the Hospital Harm—Severe Hyperglycemia Measure are being proposed for adoption in this proposed rule. We refer readers to sections IX.C.5.d.1. and IX.C.5.d.2. of the preamble of this proposed rule for more detail.
### Measures for the FY 2026 Payment Determination and Subsequent Years

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Healthcare Safety Network Measures</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCP Influenza Vaccination</td>
<td>Influenza Vaccination Coverage Among Healthcare Personnel</td>
<td>0431</td>
</tr>
<tr>
<td>HCP COVID-19 Vaccination*</td>
<td>COVID-19 Vaccination Coverage Among Health Care Personnel</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| **Claims-Based Mortality Measures** | | |
| MORT-30-STK | Hospital 30-Day, All-Cause, Risk Standardized-Mortality Rate Following Acute Ischemic Stroke | N/A |

| **Claims-Based Coordination of Care Measures** | | |
| AML Excess Days | Excess Days in Acute Care after Hospitalization for Acute Myocardial Infarction | 2881 |
| HF Excess Days | Excess Days in Acute Care after Hospitalization for Heart Failure | 2880 |
| PN Excess Days | Excess Days in Acute Care after Hospitalization for Pneumonia | 2882 |

| **Claims-Based Payment Measures** | | |
| AML Payment | Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care for Acute Myocardial Infarction (AMI) | 2431 |
| HF Payment | Hospital-Level, Risk-Standardized Payment Associated with a 30-Day Episode-of-Care For Heart Failure (HF) | 2436 |
| PN Payment | Hospital-Level, Risk-Standardized Payment Associated with a 30-day Episode-of-Care For Pneumonia | 2579 |

### Measures for the FY 2026 Payment Determination and Subsequent Years

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Claims and Electronic Data Measures</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hybrid HWM**</td>
<td>Hybrid Hospital-Wide All-Cause Risk Standardized Mortality Measure (HWM)</td>
<td>N/A</td>
</tr>
<tr>
<td>Hybrid HWR***</td>
<td>Hybrid Hospital-Wide All-Cause Readmission Measure (HWR)</td>
<td>2879</td>
</tr>
</tbody>
</table>

| **Chart-Abstracted Clinical Process of Care Measures** | | |
| PC-01 | Elective Delivery | 0469 |
| Sepsis | Severe Sepsis and Septic Shock: Management Bundle (Composite Measure) | 0500 |

| **Structural Measures** | | |
| Maternal Morbidity**** | Maternal Morbidity Structural Measure | N/A |

| **EHR-based Clinical Process of Care Measures (that is, Electronic Clinical Quality Measures (eCQMs))** | | |
| Safe Use of Opioids ***** | Safe Use of Opioids – Concurrent Prescribing | 3316e |
| STK-02 | Discharged on Antithrombotic Therapy | 0435 |
| STK-05 | Antithrombotic Therapy by the End of Hospital Day Two | 0438 |
| VTE-1 | Venous Thromboembolism Prophylaxis | 0371 |
| VTE-2 | Intensive Care Unit Venous Thromboembolism Prophylaxis | 0372 |
| HH-01 ***** | Hospital Harm—Severe Hypoglycemia Measure | 3503e |
| HH-02 ***** | Hospital Harm—Severe Hyperglycemia Measure | 3533e |

| **Patient Experience of Care Survey Measures** | | |
| HCAHPS | Hospital Consumer Assessment of Healthcare Providers and Systems Survey (including Care Transition Measure) | 0166 (0228) |

* The COVID-19 Vaccination Coverage Among Health Care Personnel measure is being proposed for adoption in this proposed rule. We refer readers to section IX.C.5.c. of the preamble of this proposed rule for more detail.

** In this proposed rule, we are proposing to adopt the Hybrid Hospital-Wide All-Cause Risk Standardized Mortality (HWM) measure beginning with one voluntary reporting period (July 1, 2023-June 30, 2023), followed by mandatory reporting beginning with the July 1, 2023–June 30, 2024 reporting period, impacting the FY 2026 payment determination.

*** In the FY 2020 IPPS/LTCH PPS final rule, we removed the claims-only Hospital-Wide All-Cause Unplanned Readmission (HWR claims-only) measure (NQF #1789) and replaced it with the Hybrid Hospital-Wide Readmission Measure with Claims and Electronic Health Record Data (NQF #2879) (Hybrid HWR measure), beginning with the FY 2026 payment determination (84 FR 42465 through 42481). The removal of the HWR claims-only measure was contingent on our finalizing our proposal to adopt the Hybrid HWR measure. We finalized our proposal to align the removal of the HWR claims only measure such that its removal aligns with the end of the finalized 2-year voluntary reporting period and the beginning of the finalized mandatory data submission and public reporting of the Hybrid HWR measure.

***** Reporting on the Safe Use of Opioids measure is mandatory for the FY 2024 payment determination and subsequent years.

****** The Hospital Harm–Severe Hypoglycemia Measure and the Hospital Harm–Severe Hyperglycemia Measure are being proposed for adoption in this proposed rule. We refer readers to sections IX.C.5.d.1. and IX.C.5.d.2. of the preamble of this proposed rule for more detail.
9. Future Considerations

We seek to develop a comprehensive set of quality measures to be available for widespread use for informed decision-making and quality and cost improvements through the inpatient hospital setting. Additionally, the emergence of COVID–19 has highlighted various impacts on measure outcomes and care of patients, which we believe are important to address. We have identified potential future measure or topics for future development, which we believe address areas that are important to stakeholders, but which are not currently covered in the Hospital IQR Program measure set. Therefore, we are seeking stakeholder feedback on potential new measures and future considerations for the Hospital IQR Program. These are discussed in more detail later in this section.

a. Potential Future Development and Inclusion of a 30-Day, All-Cause Mortality Measure for Patients Admitted With COVID–19 Infection

We are working to learn more about the impact of the COVID–19 infection on measure outcomes, particularly readmission and mortality measures, and about how the burden of the PHE for COVID–19 influences hospitals’ ability to care for patients. To support our efforts, we are considering the potential future inclusion of a new hospital-level measure of all-cause mortality for Medicare beneficiaries admitted with COVID–19 infection (COVID–19 mortality measure). Such a measure would likely be similar to other hospital-level mortality measures currently in use in CMS programs, such as the AMI and Heart Failure 30-day mortality measures adopted for the Hospital IQR Program in the CY 2007 OPPS/ASC final rule (71 FR 68201) and the Pneumonia 30-day mortality measure adopted for the Hospital IQR Program in the FY 2008 IPPS/LTC PPS final rule (72 FR 47346 through 47351). These measures were later adopted for HVBP in the FY 2011 Hospital VBP final rule (76 FR 26497 through 26511). For example, the measure would likely be constructed with the measure cohort including patients admitted with COVID–19 based on principal or in select cases based on secondary diagnoses, the outcome being mortality within a specified number of days from admission (such as 30 days), and risk adjustment based on clinical factors and constructed using hierarchical modelling. The measure would use administrative claims data; however, development and reporting data would not include the January 1, 2020 through June 30, 2020 data excluded in the blanket ECE issued in response to the PHE for COVID–19.

Public reporting of this measure would not be feasible until at least FY 2023 due to the time required for measure development, testing, and production, as well as statutorily required pre-rulemaking (inclusion on the Measures Under Consideration list for public comment and review by the MAP) and notice and comment rulemaking. To inform our measure development, we are currently seeking public comment on the potential future inclusion of a COVID–19 mortality measure in the Hospital IQR Program. Specifically, we are seeking input on:

- The timeline and approach for implementing a COVID–19 mortality measure.
- We seek stakeholder comment on balancing the priority of obtaining rapid information to improve quality of care for patients during the COVID–19 pandemic with the potential benefits of a phased approach to implementation, that might include, for example, a dry run, voluntary reporting, and/or confidential reporting prior to public reporting on the Care Compare website.
- The population (type of patients) to include in the COVID–19 mortality measure cohort. Specifically, diagnosis codes for principal diagnosis of COVID–19, and other key diagnoses, such as pneumonia or sepsis, if COVID–19 is coded as a secondary diagnosis present on admission;
- The potential inclusion of both Medicare FFS beneficiaries and Medicare Advantage patients, as feasible;
- Risk factors we should consider adjusting for in the measure, such as clinical, risk factors or comorbidities available in administrative claims data; and
- The potential stratification of measure results, as feasible, such as by social risk factors, geographic location, and/or prevalence or burden of COVID–19 disease, and how to define these characteristics.

b. Potential Future Inclusion of a Hospital-Level, Risk Standardized Patient Reported Outcomes Measure Following Elective Primary Total Hip and/or Total Knee Arthroplasty (1) Background

Approximately 6 million adults aged 65 or older suffer from osteoarthritis in the US.1232 Osteoarthritis accounts for more than half of all arthritis-related hospitalizations,1233 and in 2013 there were approximately 1,023,000 hospitalizations for osteoarthritis.1234 Hip and knee osteoarthritis is one of the leading causes of disability among non-institutionalized adults,1235 and roughly 80 percent of patients with osteoarthritis have some limitation in mobility.1236 Elective total hip arthroplasty (THA) and total knee arthroplasty (TKA) are most commonly performed for degenerative joint disease or osteoarthritis, which affects more than 30 million Americans.1237 Many THA and TKA offer significant improvement in quality of life by decreasing pain and improving function in a majority of patients, without resulting in a high risk of complications or death.1238 1239 1240 1241 However, not all patients experience benefit from these procedures.1242 Many patients note that their preoperative expectations for functional improvement have not been met,1243 1244 1245 1246 In addition, clinical

practice variation has been well documented in the U.S., 1247 1248 1249 readmission and complication rates vary across hospitals, 1250 1251 and international experience documents wide hospital-level variation in patient-reported outcome measure results following THA and TKA. 1252 For example, data from the United Kingdom demonstrates that there is a greater than 15 percent difference across hospitals in the proportion of patients showing improvement after surgery. 1253 1254 Peri-operative care and care coordination across provider groups and specialties have important effects on clinical outcomes. 1255 1256 The goal of a hospital-level outcome measure is to capture the full spectrum of care to incentivize collaboration and shared responsibility for improving patients’ health and reducing the burden of their disease. THA and TKA procedures provide a suitable environment for optimizing care, as there are many studies indicating how hospitals and providers can improve outcomes of their patients by addressing aspects of pre-, peri-, and postoperative care. 1257 1258 1259 1260

Due to the absence of large scale and uniformly collected patient-reported outcome (PRO) data available from patients undergoing elective primary THA/TKA, in November 2015 CMS established an incentivized, voluntary PRO data collection opportunity within the Comprehensive Care for Joint Replacement (CJR) model to support measure development. Requirements for successful submission of PRO data for eligible elective primary THA/TKA procedures were identified by CMS in the 2015 CJR final rule (80 FR 73274). This Hospital-Level, Risk-Standardized Patient-Level (THA/TKA) All-Cause Risk-Standardized Complication Measure (Version 2.0), March 2013; Available at: http://qualitynet.org/.

In October 2017, we launched the Meaningful Measures Framework to identify high priority areas for quality measurement that improve patient outcomes while also reducing burden on providers. 1263 The initiative captures the agency’s vision in evaluating and streamlining regulations with a goal to reduce unnecessary cost and burden, increase efficiencies, and improve beneficiary experience. The scope of the Meaningful Measures Framework continues to evolve as the health care environment continues to change. Meaningful Measures 2.0 is currently underway and aims to promote better collection and integration of patients’ voices by incorporating PRO measures that are embedded into the clinical workflow, are easy to use, and reduce reporting burden. 1264 The THA/TKA PRO–PM is fully developed aligns with these Meaningful Measures 2.0 goals. Effective THA/TKAs are important, effective procedures performed on a broad population, and the patient outcomes for these procedures (such as pain, mobility, and quality of life) can be measured in a scientifically sound way.
making PROs a meaningful outcome metric to assess.1288

(2) Overview of Measure

The THA/TKA PRO–PM reports the hospital-level risk-standardized improvement rate (RSIR) in PROs following elective primary THA/TKA for Medicare FFS beneficiaries aged 65 years and older. Substantial clinical improvement would be measured by achieving a pre-defined improvement in score on joint-specific PRO instruments, measuring hip or knee pain and function, from the preoperative assessment (data collected 90 to 0 days before surgery) to the postoperative assessment (data collected 300 to 425 days following surgery). For additional details regarding the measure specifications, we refer readers to the Patient-Reported Outcomes (PROs) Following Elective Primary Total Hip and/or Total Knee Arthroplasty: Hospital-Level Performance Measure—Measure Methodology Report, available on the CMS website at: https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Measure-Methodology.pdf.

Several stakeholder groups were engaged throughout the development process of the THA/TKA PRO–PM, as required in the Measures Management System (MMS) Blueprint,1289 including a Technical Advisory Group (TAG), a Patient Working Group, and a national, multi-stakeholder Technical Expert Panel (TEP) consisting of a diverse set of stakeholders, including providers and patients. These groups were convened by the measure developer under contract with CMS and who provided feedback on the measure concept, outcome, cohort, risk model variables, reporting results, and data collection. We also received multiple public comments used to support the development of this measure in the 2015 CJR final rule (80 FR 73274).

The THA/TKA PRO–PM (MUC20–0003) was included in the publicly available “2020 Measures Under Consideration List.”1290 The Map supported the measure, as referenced in the 2020–2021 Final Recommendations report to HHS and CMS.1291 This measure was submitted for NQF review in March 2020.1292 In November 2020, the NQF endorsed the THA/TKA PRO–PM (NQF#3559).

(3) Data Sources

The THA/TKA PRO–PM uses four sources of data for the calculation of the measure: (1) PRO data; (2) claims data; (3) Medicare enrollment and beneficiary data; and (4) U.S. Census Bureau survey data. The measure uses PRO and limited patient-level risk factor data (described in section IX.C.9.b. of the preamble of this proposed rule) collected by hospitals preoperatively and postoperatively. The measure includes two joint-specific PRO instruments—the Hip dysfunction and Osteoarthritis Outcome Score for Joint Replacement (HOOS, JR) for completion by THA recipients and the Knee injury and Osteoarthritis Outcome Score for Joint Replacement (KOOS, JR) for completion by TKA recipients—from which scores are used to assess substantial clinical improvement. Additionally, hospitals submit either the Patient-Reported Outcomes Measurement Information System (PROMIS)-Global or the Veterans RAND 12-Item Health Survey (VR–12), from which Mental Health and Cohen DB, Lin Z, Drye EE, Bernheim SM. Environmental Scan/Literature Review. Total Hip and Total Knee Arthroplasty Patient-Reported Outcome Measure. Report prepared for Centers for Medicare & Medicaid Services. 2012.


The measure excludes patients with staged procedures, defined as more than one elective primary THA or TKA performed on the same patient during distinct hospitalizations during the measurement period.

(7) Risk Adjustment

The risk model was developed with clinically relevant risk variables identified by public comment in the 2015 CJR final rule (80 FR 73274), the TEP, and expert orthopedic consultants and supported by empirical analyses, and includes risk variables collected with PRO data by hospitals in the CJR program. The preoperative score of the Mental Health subscale from two global PRO instruments (the PROMIS-Global or the VR–12) collected with CJR PRO data is included as a risk variable. In addition, the risk model includes a validated, one-question patient-reported assessment of health literacy—the Single Item Literacy Screener questionnaire. Furthermore, since poorly or incompletely collected PRO data may be asymmetrically distributed across lower socioeconomic or disadvantaged populations and thus potentially affect measure scores, the measure developer used empirical analyses and stakeholder input to develop an approach to account for response bias in the measure calculation. The approach uses comorbidities and social risk factors—including non-White race, dual eligibility, and AHRQ SES index lowest quartile—to predict response to the PRO survey. Weighting the responders based on their likelihood of response (given their patient characteristics) helps reduce non-response bias when calculating the RSIR.

For additional details regarding the approach to risk adjustment and the full risk model, we refer readers to the Patient-Reported Outcomes (PRO) Following Elective Primary Total Hip and/or Total Knee Arthroplasty: Hospital-Level Performance Measure (Measure Methodology Report), available at: https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInitiatives/Measure-Methodology).

(8) Measure Calculation

The hospital-level THA/TKA PRO–PM measure result is calculated by aggregating all patient-level results across the hospital. At the hospital level, this measure would be calculated and presented as a RSIR, producing a performance measure per hospital which accounts for patient case mix, addresses potential non-response bias, and represents a measure of quality of care following primary elective THA and TKA. Response rates for PRO data for this measure would be calculated as the percentage of elective primary THA or TKA procedures for which complete and matched preoperative and postoperative PRO data have been submitted divided by the total number of eligible THA or TKA procedures performed at each hospital and may be reported with measure results for transparency.

As described in section IX.C.9.b.(7) of the preamble of this proposed rule, the measure developer under contract with CMS convened several stakeholder groups, including providers and patients, throughout measure development. Providers noted that there was a need for sufficient time and resources for initial set up and resources needed to collect data either internally or externally. As a result, we are considering a phased implementation approach for this measure. For example, similar to other novel measures recently adopted, such as the Hybrid HWR measure finalized for inclusion in the Hospital IQR Program in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42465), we are considering first allowing hospitals to submit their data voluntarily before it would become mandatory for reporting as part of the Hospital IQR Program.

We are considering three different implementation approaches. One approach would be that hospitals collect their own data and send to CMS for measure calculation. Another approach would be that collection would occur by an external entity, such as through a vendor or CMS. Lastly, hospitals could collect their own data and send their data to a registry or other entity for storage, standardization, and submission to CMS for measure calculation.

We received feedback from patients and providers that they would like to utilize their PRO results as part of the shared decision-making process and had a desire for flexible data collection modes (telephone, paper, electronic). Patients were more willing to report data if they knew the survey was from their provider, they understood the importance and use of the survey, and they had access to their own survey responses.

Providers expressed concerns over survey fatigue, resources needed to collect data, and integration with EHRs. We understand the importance of aligning data collection and data submission efforts for hospital reporting of PRO data and providing a way for hospitals to integrate the collection into
EHRs so the PRO data are available at the point of care.

We invite public comment on the possible future inclusion of the THA/TKA PRO–PM in the Hospital IQR Program.

We also invite public comment on other aspects of the measure related to future implementation. Specifically, we are seeking public comment on the following:

- A phased approach to implementation, including voluntary followed by mandatory reporting, and the timing/duration of such reporting periods;
- The mechanism of data collection and submission, including anticipated barriers and solutions to data collection and submission;
- The required thresholds for the quantity of data (that is, number of completed PRO instruments) hospitals should submit for voluntary and mandatory reporting;
- The application of the THA/TKA PRO–PM measure to settings such as hospital outpatient departments, ambulatory surgical centers, or hospital inpatient procedures followed by observation stays, such as through aligned PRO–PMs across the relevant measurement programs; CMS recognizes that over time, more THA and TKA procedures may be performed outside of the inpatient setting; as finalized in the CY 2021 OPPS/ASC final rule, THA and TKA procedures have been removed from CMS’ inpatient only (IPO) procedure list (82 FR 59385, 84 FR 61355) and added to the ASC covered procedures list (CPL) (84 FR 61388, 85 FR 86146).

b. Potential Future Efforts To Address Health Equity in the Hospital IQR Program

Significant and persistent inequities in health care outcomes exist in the United States. Inequities in the social determinants of health affecting these groups, such as poverty and healthcare access, are interrelated and influence a wide range of health and quality-of-life outcomes and risks. Therefore, we are committed to achieving equity in health care outcomes, including by improving data collection to better measure and analyze disparities across programs and policies. Please see Closing the Health Equity Gap in CMS Quality Programs—A Request for Information, in section IX.B. of the preamble of this proposed rule, for additional information about our current disparity methods and its potential expansion.

We have also identified potential opportunities specific to the Hospital IQR Program where we could leverage current measures or develop new measures to address the gap in existing health inequities. These opportunities include the stratification of HWR measure data by both dual eligibility and race/ethnicity, and the inclusion of a structural measure assessing the degree of hospital leadership engagement in health equity performance data.

(1) Potential Future Confidential Stratified Reporting for the Hospital-Wide All-Cause Unplanned Readmission Measure Using Both Dual Eligibility and Race/Ethnicity

(a) Background

As described in section IX.B. of the preamble of this proposed rule, where we discuss Closing the Health Equity Gap in CMS Quality Programs—A Request for Information, we currently provide hospitals with confidential, hospital-specific reports (HSRs) containing performance results of six condition-specific readmission measures stratified by dual-eligibility status (82 FR 41589, 84 FR 42497 through 42500).

(b) Potential Future Expansion of Hospital-Wide All-Cause Unplanned Readmission (HWR) Measure Data and Stratification

We are seeking comment on potentially expanding our efforts to provide results of the Within- and Across-Hospital Disparity Methods to promote health equity and improve healthcare quality. Specifically, we are seeking comment on the idea of stratifying the performance results of the Hospital-Wide All-Cause Unplanned Readmission (HWR claims-only) measure (NQF# 1789) by dual eligibility and indirectly estimated race and ethnicity, as described in section IX.B. of the preamble of this proposed rule. We also seek comment on the idea of stratifying said performance results by disability status and seek suggestions for appropriate measures of disability status that could be derived from administrative data or self-reporting for this purpose. Results would be presented if technically feasible, adequately representative, and statistically reliable.

We believe that concurrently reporting equity results for the HWR claims-only measure in addition to the six condition-specific measures already stratified by dual eligibility would be advantageous as the measures often provide complimentary insights about different dimensions of health quality. In addition, the HWR claims-only measure includes a larger patient population, allowing hospitals that may be too small to have meaningful results for condition-specific measures to receive stratified results for the HWR claims-only measure. Stratification of the HWR claims-only measure, by both dual eligibility, indirectly estimated race and ethnicity and potentially by disability status would provide additional information regarding disparities measured within individual hospitals and across hospitals nationally.

We are considering an incremental approach to public reporting, first providing the HWR claims-only measure stratification results (by both dual eligibility and race/ethnicity) in confidential HSRs. This approach would allow stakeholders an opportunity to become more familiar with, and gain comfort with, interpreting stratified results for the HWR claims-only measure using both dual eligibility and indirect estimation of race and ethnicity, prior to anticipated future public reporting of stratified measure data. Any proposal to display stratified quality measure data for any measures on the Care Compare website, or expand stratified reporting to additional social risk factors, would be made through future rulemaking. We anticipate being able to provide the data in the HSRs in spring 2022. We intend to consider feedback on potential disability status stratification for future updates of these measures.

We invite public comment on the following:

- The possibility of confidentially reporting in HSRs stratified results using indirectly estimated race and ethnicity, dual eligibility status and potentially by disability status, for the Hospital-wide Readmission claims-only measure, using both methods (within and across hospitals);
- The possibility of publicly reporting stratified results using indirectly


estimated race and ethnicity, dual eligibility and potentially by disability status, publicly on Care Compare, after at least one year of confidential reporting for the Hospital-Wide Readmission claims-only measure.

(2) Potential Future Reporting of a Structural Measure To Assess the Degree of Hospital Leadership Engagement in Health Equity Performance Data

To ensure that all Medicare patients receive excellent care, regardless of individual characteristics, such as dual eligibility status, race, ethnicity, and disability status, we believe that organizational leadership and culture can play an essential role in advancing organizational leadership and culture in building a culture of equity that focuses on educating and empowering their workforce to recognize and eliminate health disparities. Hospital leadership can be instrumental in setting specific, measurable, attainable, relevant, and time-based goals, to assess progress towards achieving equity priorities and ensuring care is equally accessible to all individuals.

To improve public transparency, we are seeking comment on the potential future collection of one or more attestation-based structural measure(s), to be developed, assessing priority domains related to organizational commitment to health equity including:

- The degree to which the hospital organization regularly examines existing algorithms for the presence of bias, and regularly shares these findings with the hospital organization’s leadership and board of directors;
- The presence of the hospital organizational disparities impact statement, along the lines of what is discussed in the CMS publication “Building an Organizational Response to Health Disparities: Disparities Impact Statement” which identifies and prioritizes actionable steps towards addressing health disparities;
- The presence of an updated language access plan, as defined by the CMS Office of Minority Health, to compete for care with limited English proficiency;
- The presence of an updated communication access plan, as described by the CMS Office of Minority Health, to competently care for individuals who have visual or sensory disabilities;
- The degree to which the hospital’s electronic health record system has capabilities to collect demographic data elements (such as race, ethnicity, sex, sexual orientation and gender identity (SOGI), primary language, and disability status) in alignment with national data collection and interoperable exchange standards; and
- The degree to which the hospital conducts staff training on best practices in collection of demographic information.

We believe these types of organizational commitment structural measure(s) would build on the current health disparities reporting, and support hospitals in quality improvement, efficient, effective use of resources, and leveraging available data. As defined by AHRQ, structural measures aim to “give AHRQ, structural measures aim to “give

We acknowledge that collection of this structural measure may impose administrative and/or reporting requirements for hospitals. To allow stakeholders an opportunity to become more familiar with, and gain comfort with, components of the structural measure related to organizational commitment to health equity performance, we envision an incremental approach to required reporting, starting first with a voluntary reporting period. Any future technical specifications or plans to display results of the structural measure on Care Compare or successor website would be made through future rulemaking. We are interested in obtaining feedback from stakeholders on conceptual and measurement priorities for better illuminating organizational commitment to health equity, including review of hospital outcomes stratified by social risk factors. We also seek feedback on an appropriate measure regarding organizational commitment to health equity and accessibility for individuals with intellectual and developmental disabilities.

8. Form, Manner, and Timing of Quality Data Submission

a. Background

Sections 1866(b)(3)(B)(viii)(I) and (b)(3)(B)(viii)(II) of the Act state that the applicable percentage increase for FY 2015 and each subsequent year shall be reduced by one-quarter of such applicable percentage increase (determined without regard to sections 1866(b)(3)(B)(ix), (xi), or (xii) of the Act) for any subsection (d) hospital that does not submit data required to be submitted on measures specified by the Secretary in a form and manner, and at a time, specified by the Secretary. In order to successfully participate in the Hospital IQR Program, hospitals must meet specific procedural, data collection, submission, and validation requirements.

Previously, the applicable percentage increase for FY 2007 and each subsequent fiscal year until FY 2015 was reduced by 2.0 percentage points for subsection (d) hospitals failing to submit data in accordance with the previous description. In accordance with the statute, the FY 2022 payment determination will begin the eighth year that the Hospital IQR Program will reduce the applicable percentage increase by one-quarter of such applicable percentage increase.

b. Maintenance of Technical Specifications for Quality Measures

For each Hospital IQR Program payment determination, we require that hospitals submit data on each specified measure in accordance with the measure’s specifications for a particular
period of time. We refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41538) in which we summarized how the Hospital IQR Program maintains the technical measure specifications for quality measures and the subregulatory process for incorporation of nonsubstantive updates to the measure specifications to ensure that measures remain up-to-date. We are not proposing any changes to these policies in this proposed rule.

The data submission requirements, Specifications Manual, and submission deadlines are posted on the QualityNet website at: http://www.QualityNet.cms.gov (or other successor CMS designated websites).

The CMS Annual Update for the Hospital Quality Reporting Programs (Annual Update) contains the technical specifications used for electronic clinical quality measures (eCQMs). The Annual Update contains updated measure specifications for the year prior to the reporting period. For example, for the CY 2021 reporting period/FY 2023 payment determination, hospitals submitted eCQM data using the May 2020 Annual Update and any applicable addenda. Updates include code updates, logic corrections, alignment with current clinical guidelines, and additional guidance for hospitals and electronic health record (EHR) vendors.

The Annual Update and implementation guidance documents are available on the Electronic Clinical Quality Improvement (eCQI) Resource Center website at: https://ecqi.healthit.gov/. Hospitals must register and submit quality data through the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System). The QualityNet Secure Portal is safeguarded in accordance with the HIPAA Privacy and Security Rules to protect submitted patient information. See 45 CFR parts 160 and 164, subparts A, C, and E.

We also refer readers to section VIII.A. of this proposed rule where we request information on potential actions and priority areas that would enable the continued transformation of our quality measurement enterprise toward greater digital capture of data and use of the FHIR standard (as described in that section).

c. Procedural Requirements

The Hospital IQR Program's procedural requirements are codified in regulation at 42 CFR 412.140. We refer readers to these codified regulations for participation requirements, as further explained by the FY 2014 IPPS/LTCH PPS final rule (78 FR 50810 through 50811) and the FY 2017 IPPS/LTCH PPS final rule (81 FR 57168). In this proposed rule, we are proposing to: (1) Update references to the QualityNet website, and (2) use the term “QualityNet security official” instead of “QualityNet Administrator”.

(1) Proposal To Update References to the QualityNet Website in the Hospital IQR Program Regulation Text

In November 2020, we launched a redesigned QualityNet website, and updated the URL from QualityNet.org to QualityNet.cms.gov. As a result, we are proposing to update the references to this CMS resource in the Hospital IQR Program regulation text. Specifically, we are proposing to remove reference to the QualityNet.org URL in two places:

- At 42 CFR 412.140(a)(1) by revising the sentence from "Register on QualityNet.org, before it begins to report data" to "Register on the QualityNet website, before it begins to report data";
- At 42 CFR 412.140(c)(2)(i) by revising the sentence from "Specific requirements for submission of a request for an exception are available on QualityNet.org" to "Specific requirements for submission of a request for an exception are available on the QualityNet website."

We believe that updating the references to remove a specific URL allows for future iterations and updates to the website as technology evolves over time.

We invite public comment on our proposals to update references to the QualityNet security official at 42 CFR 412.140(a)(2) and 42 CFR 412.140(e)(2)(iii).

d. Data Submission Requirements for Chart-Abstracted Measures

We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51640 through 51641), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53536 through 53537), and the FY 2014 IPPS/LTCH PPS final rule (78 FR 50811) for details on the Hospital IQR Program data submission requirements for chart-abstracted measures. We are not proposing any changes to these policies in this proposed rule.

e. Reporting and Submission Requirements for eCQMs

(1) Background

For a discussion of our previously finalized eCQMs and policies, we refer readers to the FY 2014 IPPS/LTCH PPS final rule (76 FR 50807 through 50810; 50811 through 50819), the FY 2015 IPPS/LTCH PPS final rule (79 FR 50241 through 50253; 50256 through 50259; and 50273 through 50276), the FY 2016 IPPS/LTCH PPS final rule (80 FR 49692 through 49698; and 49704 through 49709), the FY 2017 IPPS/LTCH PPS final rule (81 FR 57150 through 57161; and 57169 through 57172), the FY 2018 Medicare Program; CY 2021 Medicare hospital outpatient prospective payment system. 85 FR 80182.

We are proposing to revise existing language at 42 CFR 412.140(a)(2) by replacing “QualityNet Administrator” with “QualityNet security official.” If finalized, the revised paragraph (a)(2) would read: “Identify and register a QualityNet security official as part of the registration process under paragraph (a)(1) of this section.”

In addition, we propose to revise existing language at 42 CFR 412.140(e)(2)(iii) by replacing “QualityNet system administrator” with “QualityNet security official.” If finalized, the revised paragraph (e)(2)(iii) would read: “Contact information for the hospital’s chief executive officer and QualityNet security official, including each individual’s name, email address, telephone number, and physical mailing address.”

We invite public comment on our proposals to update references to the QualityNet security official at 42 CFR 412.140(a)(2) and 42 CFR 412.140(e)(2)(iii).

(2) Proposal to Update Reference to QualityNet Administrator

The previously finalized QualityNet security administrator requirements, including setting up a QualityNet account and the associated timelines, are described at 42 CFR 412.140(a)(2), 42 CFR 412.140(e)(2)(iii), and in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51639 through 51640).

In this proposed rule, we propose to use the term “QualityNet security official” instead of “QualityNet Administrator” or “QualityNet System Administrator”. This proposed update in terminology would not change the individual’s responsibilities or add burden, and would align with the Hospital Outpatient Quality Reporting


1307 Medicare Program; CY 2021 Medicare hospital outpatient prospective payment system. 85 FR 80182.
In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38368 through 38361), we finalized eCQM reporting and submission requirements such that hospitals were required to report only one, self-selected calendar quarter of data for four self-selected eCQMs for the CY 2018 reporting period/FY 2020 payment determination. Those reporting requirements were extended to the CY 2019 reporting period/FY 2021 payment determination in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41576 through 41575; 83 FR 41602 through 41607), FY 2020 IPPS/LTCH PPS final rule (84 FR 42501 through 42506), and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58932 through 58940).

In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38368 through 38361), we finalized eCQM reporting and submission requirements such that hospitals were required to report only one, self-selected calendar quarter of data for four self-selected eCQMs for the CY 2018 reporting period/FY 2020 payment determination. Those reporting requirements were extended to the CY 2019 reporting period/FY 2021 payment determination in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41576 through 41575; 83 FR 41602 through 41607), as well as to the CY 2020 reporting period/FY 2022 payment determination and the CY 2021 reporting period/FY 2023 payment determination in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42501 through 42506).

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42503 through 42505), we finalized that for the CY 2022 reporting period/FY 2024 payment determination, hospitals would be required to report one, self-selected calendar quarter of data for: (a) Three self-selected eCQMs and (b) the Safe Use of Opioids—Concurrent Prescribing eCQM (Safe Use eCQM), for a total of four eCQMs.

In the FY 2021 IPPS/LTCH PPS final rule, we finalized a progressive increase in the numbers of required reported quarters of eCQM, from one self-selected quarter of data to four quarters of data over a three-year period (85 FR 58939). For the CY 2021 reporting period/FY 2023 payment determination, hospitals are required to report two self-selected calendar quarters of data for each of the four self-selected eCQMs. For the CY 2022 reporting period/FY 2024 payment determination, hospitals are required to report three self-selected calendar quarters of data for each required eCQM: (a) Three self-selected eCQMs, and (b) the Safe Use of Opioids eCQM. For the CY 2023 reporting period/FY 2025 payment determination and subsequent years, hospitals are required to report four calendar quarters of data for each required eCQM: (a) Three self-selected eCQMs, and (b) the Safe Use of Opioids eCQM. We also clarified in the FY 2021 IPPS/LTCH PPS final rule that until hospitals are required to report all four quarters of data beginning with the CY 2023 reporting period/FY 2025 payment determination, they may submit either consecutive or nonconsecutive self-selected quarters of data (85 FR 58939).

While we are not proposing any changes to these policies in this proposed rule, we would like to clarify in case there is any confusion that beginning with the CY 2021 reporting period/FY 2023 payment determination, the self-selected eCQMs must be the same eCQMs across quarters in a given reporting year.

(2) Proposed Updates to Certification Requirements for eCQM Reporting

In this proposed rule, we are proposing a date after which Hospital IQR Program participants must use technology certified to the 2015 Edition Cures Update and clarifying the policy that certified technology must support the reporting requirements for all available eCQMs.

(a) Proposal To Require the Use of Technology Certified to the 2015 Edition Cures Update Criteria Beginning With the CY 2023 Reporting Period/FY 2025 Payment Determination

(i) Background

In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41604 through 41607), we finalized a policy to require hospitals to use the 2015 Edition certification criteria for the CY 2019 reporting period/FY 2021 payment determination and subsequent years to align the Hospital IQR Program with the 2015 Edition Cures Update. The revision was responsive to industry feedback that the health IT certified to the prior version of the ONC certification criteria for use by their customers (85 FR 84816).

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 41576 through 41608), or (2) certified technology updated consistent with the 2015 Edition Cures Update as finalized in the ONC 21st Century Cures Act final rule (85 FR 25642 through 25961). We adopted this flexible approach to encourage hospitals to be early implementers of the 2015 Edition Cures Update while remaining in compliance with Hospital IQR Program data submission requirements and maintaining alignment with requirements in the Medicare Promoting Interoperability Program.

(ii) Proposal

In this proposed rule, beginning with the CY 2023 reporting period/FY 2025 payment determination and subsequent years, we are proposing to require hospitals to use only certified technology updated consistent with the 2015 Edition Cures Update as finalized in the ONC 21st Century Cures Act final rule (85 FR 25642 through 25961). We invite public comment on our proposal to require hospitals to use only certified technology updated consistent with the 2015 Edition Cures Update, beginning with the CY 2023 reporting period/FY 2025 payment determination and subsequent years.
(b) Requiring EHR Technology To Be Certified to All Available eCQMs

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42505 through 42506), we finalized the requirement that EHRs be certified to all available eCQMs used in the Hospital IQR Program for the CY 2020 reporting period/FY 2022 payment determination and subsequent years. We are not proposing any changes to this policy in this proposed rule. We note that if our proposal to require hospitals to use the 2015 Edition Cures Update beginning with the CY 2023 reporting period/FY 2025 payment determination is finalized, then all available eCQMs used in the Hospital IQR Program for the CY 2023 reporting period/FY 2025 payment determination and subsequent years would need to be reported using certified technology updated to the 2015 Edition Cures Update.

(3) File Format for EHR Data, Zero Denominator Declarations, and Case Threshold Exemptions

We refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49705 through 49708) and the FY 2017 IPPS/LTCH PPS final rule (81 FR 57170) for our previously adopted eCQM file format requirements. Under these requirements, hospitals: (1) Must submit eCQM data via the Quality Reporting Document Architecture Category I (QRDA I) file format, (2) may use third parties to submit QRDA I files on their behalf, and (3) may either use abstraction or pull the data from non-certified sources in order to then input these data into CQIN for capture and reporting QRDA I. Hospitals can continue to meet the reporting requirements by submitting data via QRDA I files, zero denominator declaration, or case threshold exemption (82 FR 38387).

More specifically regarding the use of QRDA I files, we refer readers to the FY 2017 IPPS/LTCH PPS final rule (81 FR 57169 through 57170) and the FY 2020 IPPS/LTCH PPS final rule (85 FR 58940), in which we stated that we expect QRDA I files to reflect data for one patient per file per quarter, and identified the five key elements that are utilized to identify the file:

- CMS Certification Number (CCN);
- CMS Program Name;
- EHR Patient ID;
- Reporting period specified in the Reporting Parameters Section per the CMS Implementation Guide for the applicable reporting year, which is published on the CQI Resource Center website at: https://ecqi.healthit.gov/QRDA; and
- EHR Submitter ID (beginning with the CY 2021 reporting period/FY 2023 payment determination).

We are not proposing any changes to these policies in this proposed rule.

(4) Submission Deadlines for eCQM Data

We refer readers to the FY 2015 IPPS/LTCH PPS final rule (79 FR 50256 through 50259), the FY 2016 IPPS/LTCH PPS final rule (80 FR 49705 through 49709), and the FY 2017 IPPS/LTCH PPS final rule (81 FR 57169 through 57172) for our previously adopted policies to align eCQM data reporting periods and submission deadlines for both the Hospital IQR and Medicare Promoting Interoperability Programs. In the FY 2017 IPPS/LTCH PPS final rule (81 FR 57172), we finalized the alignment of the Hospital IQR Program eCQM submission deadline with that of the Medicare Promoting Interoperability Program—the end of two months following the close of the calendar year—for the CY 2017 reporting period/FY 2019 payment determination and subsequent years. We note the submission deadline may be moved to the next business day if it falls on a weekend or Federal holiday. We are not proposing any changes to these policies in this proposed rule.

f. Data Submission and Reporting Requirements for Hybrid Measures

In this proposed rule, we are proposing that hybrid measures comply with the same certification requirements and timeline as eCQMs. This proposal is in alignment with the updates, as previously discussed, for eCQMs requiring the use of certified technology updated consistent with the 2015 Edition Cures Update beginning with the CY 2023 reporting period/FY 2025 payment determination.

(1) Background

The Hospital IQR Program recently adopted hybrid measures into the program’s measure set. In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38350 through 38355), we finalized voluntary reporting of the Hybrid Hospital-Wide Readmission (HWR) measure for the CY 2018 reporting period. In the FY 2020 IPPS/LTCH PPS final rule, we finalized the adoption of the Hybrid HWR measure for the Hospital IQR Program (84 FR 42465 through 42481) such that, beginning with the FY 2026 payment determination, hospitals are required to report on the Hybrid HWR measure (84 FR 42479). We also finalized several requirements related to data submission and reporting requirements for hybrid measures under the Hospital IQR Program (84 FR 42506 through 42508).

We also refer readers to section VIII.C.8.f. of the preamble of this proposed rule for more information on our proposal to adopt the Hybrid Hospital-Wide Mortality measure.

(2) Certification and File Format Requirements

(a) Background

We refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 19498 through 19499), the FY 2021 IPPS/LTCH PPS final rule (85 FR 58941), and the CY 2021 PFS final rule (85 FR 84472) for our previously adopted policies regarding certification and file format requirements for hybrid measures in the Hospital IQR Program.

In the CY 2021 PFS final rule (85 FR 84825 through 84828), we finalized flexibility to allow hospitals to use either: (1) Technology certified to the 2015 Edition criteria as was previously finalized in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41537 through 41608) or (2) certified technology updated consistent with the 2015 Edition Cures Update as finalized in the ONC 21st Century Cures Act final rule (85 FR 25642 through 25961, 85 FR 50271), beginning with the CY 2020 reporting period/FY 2022 payment determination and subsequent years. The Hospital IQR Program offers flexibility to meet hybrid measure submission requirements to facilitate successful reporting during a period of transition from the requirement to solely use the 2015 Edition certified technology to the requirement to solely use the 2015 Edition Update certified technology. This flexibility applies to all Hospital IQR Program measures which use EHR data elements to calculate measure rates, including eCQMs and hybrid measures.

(b) Proposed Changes to the Certification Requirements for Hybrid Measure Reporting Beginning With the CY 2023 Reporting Period/FY 2025 Payment Determination

In this proposed rule, to align with the health IT certification requirements for eCQM reporting, we are proposing to require hospitals to use only certified technology that has been updated consistent with the 2015 Edition Cures Update to submit hybrid measure data beginning with the CY 2023 reporting period/FY 2025 payment determination and for subsequent years. We refer readers to our previous discussion for more detail on the proposed changes to the certification requirements for eCQMs.
We believe the 2015 Edition Cures Update will enhance interoperability and patients’ access to their electronic health information, consistent with section 4006(a) of the 21st Century Cures Act (Pub. L. 114–255, enacted December 13, 2016). Health IT developers have until December 31, 2022 (the date finalized in the ONC interim final rule) to make technology certified to the updated criteria available to their customers. After this date, only certified technology updated to the 2015 Edition Cures Update will be considered certified by ONC and could be used by health care providers to report for the Hospital IQR Program if our proposals are finalized. We refer readers to section VIII.F.11.a.4. of the preamble of this proposed rule where the same proposed requirements are discussed for the Medicare Promoting Interoperability Program.

We invite public comment on our proposal, as previously discussed.

(3) Additional Submission Requirements

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42507), we finalized allowing hospitals to meet the hybrid measure reporting and submission requirements by submitting any combination of data via QRDA I files, zero denominator declarations, and/or case threshold exemptions. We also finalized applying similar zero denominator declaration and case threshold exemption policies to hybrid measure reporting as we allow for eCQM reporting (84 FR 42507 through 42508).

We note that the ONC 21st Century Cures Act final rule revises the clinical quality measurement criterion at 45 CFR 170.315(c)(3) to refer to CMS QRDA IGS and removes the HL7® QRDA standard requirements (85 FR 25645). We encourage all hospitals and their health IT vendors to submit QRDA I files early, and to use one of the pre-submission testing tools for electronic reporting, such as submitting test files to the Hospital Quality Reporting (HQR) System, to allow additional time for testing and make sure all required data files are successfully submitted by the deadline.1308 We are not proposing any changes to these policies in this proposed rule.

1308 We recently decommissioned the Pre-Submission Validation Application (PSVA) tool within the HQR System because the system itself now performs the same functions that the PSVA tool previously did.

(4) Submission Deadlines for Hybrid Measures

We refer readers to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42508), where we finalized submission deadlines for hybrid measures. We are not proposing any changes to these policies in this proposed rule.

g. Sampling and Case Thresholds for Chart-Abstracted Measures

We refer readers to the FY 2011 IPPS/LTCH PPS final rule (75 FR 50221), the FY 2012 IPPS/LTCH PPS final rule (76 FR 51641), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53537), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50819), and the FY 2016 IPPS/LTCH PPS final rule (80 FR 49709) for details on our sampling and case thresholds for the FY 2016 payment determination and subsequent years. We are not proposing any changes to these policies in this proposed rule.

h. HCAHPS Administration and Submission Requirements

We refer readers to the FY 2011 IPPS/LTCH PPS final rule (75 FR 50220), the FY 2012 IPPS/LTCH PPS final rule (76 FR 51641 through 51643), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53537 through 53538), and the FY 2014 IPPS/LTCH PPS final rule (78 FR 50819 through 50820) for details on previously-adopted HCAHPS submission requirements. We also refer hospitals and HCAHPS Survey vendors to the official HCAHPS website at http://www.hcahpsonline.org for new information and program updates regarding the HCAHPS Survey, its administration, oversight, and data adjustments. We are not proposing any changes to these policies in this proposed rule.

i. Data Submission Requirements for Structural Measures

We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51643 through 51644) and the FY 2013 IPPS/LTCH PPS final rule (77 FR 53537 through 53539) for details on the data submission requirements for structural measures. Hospitals are required to submit information for structural measures once annually via a CMS-approved web-based data collection tool available via the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting system secure portal). The data submission period for structural measures begins in April until the same submission deadline as for the fourth calendar quarter of the chart-abstracted measures with respect to the reporting period for the previous calendar year. For example, for the FY 2024 payment determination, hospitals would be required to submit the required information between April 1, 2023 and May 15, 2023, with respect to the time period of January 1, 2022 through December 31, 2022.

We refer readers to section VIII.C.8.i. of the preamble of this proposed rule, where we are proposing to adopt the Maternal Morbidity Structural Measure. For the Maternal Morbidity Structural Measure and the CY 2021 reporting period/FY 2023 payment determination only, we are proposing a shortened reporting period from October 1, 2021 through December 31, 2021, while retaining the standard data submission period. Specifically, for the shortened reporting period, if our proposal is finalized as proposed, hospitals would be required to submit the data between April 1, 2022 and May 16, 2022 (we note that May 15, 2022 falls on a weekend and therefore the close of this data submission period is moved to May 16, 2022).

Thereafter, under the proposal in the VIII.C.8.i. of the preamble of this proposed rule, the reporting period for the Maternal Morbidity Structural Measure would run from: January 1 through December 31 on an annual basis, and that the data submission period would be continue to be consistent with our current policy (beginning in April until the same submission deadline as for the fourth calendar quarter of the chart-abstracted measures with respect to the reporting period for the previous calendar year).

j. Data Submission and Reporting Requirements for CDC NHSN Measures

For details on the data submission and reporting requirements for measures reported via the CDC’s National Healthcare Safety Network (NHSN), we refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51629 through 51633; 51644 through 51645), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53537 through 53538), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50819 through 50820), and the FY 2015 IPPS/LTCH PPS final rule (79 FR 50259 through 50262). The data submission deadlines are posted on the QualityNet website.

In addition, we refer readers to section VIII.C.8.j. of the preamble of this proposed rule for more detail on our proposal to adopt the COVID–19 Vaccination Coverage Among HCP measure, which requires facilities to report data on the number of HCP who have received the full regimen of a COVID–19 vaccine through the CDC’s NHSN. Specific details on submission for this measure can be found in the CDC’s Overview of the
Healthcare Safety Component, available at https://www.cdc.gov/nhsn/PDFs/slides/NHSN-Overview-HPS-Aug2012.pdf. For this measure, we would require reporting a single vaccination count for each healthcare facility by each individual facility’s CMS Certification Number (CCN). For each CMS CCN, a percentage of the HCP who received a complete course of the COVID–19 vaccination will be calculated and publicly reported on the Care Compare website, so that the public will know what percentage of the HCP have been vaccinated in each hospital.

Consistent with our adopted policies for CDC NHSN measures in the Hospital IQR Program, hospitals will report the measure through the NHSN web-based surveillance system. Specifically, hospitals will use the COVID–19 vaccination data reporting modules in the NHSN Healthcare Personnel Safety (HPS) Component to report the number of HCP eligible to have worked at the facility during the weekly submission period (denominator) and the number of those HCP who have received COVID–19 vaccination (numerator).

For the COVID–19 HCP Vaccination measure, we are proposing that hospitals would collect the numerator and denominator for the COVID–19 HCP vaccination measure for at least one self-selected week during each month of the reporting quarter and submit the data to the NHSN Healthcare Personal Safety (HPS) Component before the quarterly deadline to meet Hospital IQR Program requirements, beginning in October 2021 for the October 1, 2021 through December 31, 2021 reporting period affecting FY 2023 payment determination and continuing for each quarter in subsequent years. If a hospital submits more than one week of data in a month, the most recent week’s data would be used to calculate the measure. For example, if first and third week data are submitted, third week data would be used. If first, second, and fourth week data are submitted, fourth week data would be used. Each quarter, we are proposing that the CDC would calculate a single quarterly COVID–19 HCP vaccination coverage rate for each hospital, which would be calculated by taking the average of the data from the three weekly rates submitted by the hospital for that quarter. If finalized, CMS would publicly report each quarterly COVID–19 HCP vaccination coverage rate as calculated by the CDC.

9. Validation of Hospital IQR Program Data

In this proposed rule, we are proposing changes to our Educational Review Process to extend the effects of the educational review policy beginning with validations affecting the FY 2024 payment determination and for subsequent years. Previously we could only correct scores for the first 3 quarters of validation due to the inability to calculate the confidence interval in a timely manner for the 4th quarter of validation. We now believe it is feasible to calculate the confidence interval and use the corrected scores identified through an educational review for all 4 quarters of validation for chart-abstracted measures. This proposal is described in detail in this section.

a. Background

We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53539 through 53553), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50822 through 50835), the FY 2015 IPPS/LTCH PPS final rule (79 FR 50262 through 50273), the FY 2016 IPPS/LTCH PPS final rule (80 FR 49710 through 49712), the FY 2017 IPPS/LTCH PPS final rule (81 FR 57173 through 57181), the FY 2018 IPPS/LTCH PPS final rule (82 FR 38403), the FY 2019 IPPS/LTCH PPS final rule (83 FR 41607 through 41608), and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58942 through 58953) for detailed information on chart-abstracted and eCQM validation processes and previous updates to these processes for the Hospital IQR Program.

We refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58952) where we summarized our validation policies in the following table:

<table>
<thead>
<tr>
<th>Quarters of Data Required for Validation</th>
<th>Scoring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Finalized Process for Validation Affecting the FY 2023 Payment Determination</strong></td>
<td></td>
</tr>
<tr>
<td>Chart-Abstracted Measures Validation: 400 Random Hospitals + up to 200 Targeted Hospitals</td>
<td>3Q 2020, 4Q 2020</td>
</tr>
<tr>
<td>eCQM Validation: Up to 200 Random Hospitals</td>
<td>1Q 2020 – 4Q 2020</td>
</tr>
</tbody>
</table>

**Finalized Process for Validation Affecting the FY 2024 Payment Determination and Subsequent Years**

| COMBINED Process (Chart-Abstracted Measures and eCQM Validation): up to 200 Random Hospitals + up to 200 Targeted Hospitals | 1Q 2021 – 4Q 2021 | Chart-Abstracted Measures: At least 75% validation score (weighted at 100%) And eCQMs: Successful submission of at least 75% of requested medical records |

---

b. Educational Review Process  

(1) Chart-Abstracted Measures  

(a) Background  

In the FY 2015 IPPS/LTCH PPS final rule (79 FR 50260), we established an educational review process for validation of chart-abstracted measures. The process was subsequently updated in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38402 through 38403).

Under our educational review process, hospitals may request an educational review if they believe they have been scored incorrectly or if they have questions about their validation results. Approximately 4 months after each quarter’s validation submission deadline, validation results for chart-abstracted measures for the quarter are posted on the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System). Hospitals have 30 calendar days following the date validation results are posted to identify any potential CDAC or CMS errors for the first three quarters of validation results and contact the Validation Support Contractor (VSC) to request an educational review. Upon receipt of an educational review request, we review the data elements identified in the request, as well as the written justifications provided by the hospital. We provide the results of an educational review, outlining the findings of whether the scores were correct or incorrect, to the requesting hospital through a CMS-approved secure file transmission process (82 FR 38402).

If an educational review yields incorrect validation results for chart-abstracted measures, we use the corrected quarterly score, as recalculated during the educational review process to compute the final confidence interval (82 FR 38402). We use the revised score identified through an educational review when determining whether or not a hospital failed validation (82 FR 38402). Corrected scores, however, are only used if they indicate that the hospital performed more favorably than previously determined (82 FR 38402). We note that corrections only occur to calculations, not to the underlying measure data (82 FR 38402). Under the current policy, for the last quarter of validation for chart-abstracted measures, because of the need to calculate the confidence interval in a timely manner and the insufficient time available to conduct educational reviews, no educational reviews are available (82 FR 38403). The existing reconsideration process would be used to dispute an unsatisfactory validation result.

In the FY 2021 IPPS/LTCH PPS final rule, we finalized several policies to incrementally align the validation processes for chart-abstracted measure data and eCQMs in a stepwise process in the Hospital IQR Program (85 FR 58942 through 58952). As part of this policy, we updated the quarters of data required for validation for both chart-abstracted measures and eCQMs as summarized in these charts:

<table>
<thead>
<tr>
<th>Previously Finalized Quarters Required for Validation Affecting FY 2023 Payment Determination (These quarters have been updated, as shown in the subsequent tables)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures Submitted</td>
</tr>
<tr>
<td>--------------------</td>
</tr>
<tr>
<td>Chart-Abstracted Measures</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>eCQMs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Quarters Required for Validation Affecting the FY 2023 Payment Determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures Submitted</td>
</tr>
<tr>
<td>--------------------</td>
</tr>
<tr>
<td>Chart-Abstracted Measures</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>eCQMs</td>
</tr>
</tbody>
</table>
(b) Proposal To Extend the Effects of the Educational Review Policy Beginning With Validations Affecting the FY 2024 Payment Determination and Subsequent Years

In light of the most recently finalized quarters included in validation, we are proposing to extend the effects of the educational review policy beginning with validations affecting the FY 2024 payment determination and for subsequent years. As previously noted, in the past we could only correct scores for the first three quarters of validation due to the inability to calculate the confidence interval in a timely manner for the 4th quarter of validation. We now believe it is feasible to calculate the confidence interval and use the corrected scores identified through an educational review for all four quarters of validation for chart-abstracted measures, because the quarters used for validation are now early enough to calculate the confidence interval for the fourth quarter of validation in a timely manner. Specifically, under our previous policy, the quarters used for validation for the FY 2024 payment determination would have been 3Q 2021, 4Q 2021, 1Q 2022 and 2Q 2022. Under the most recently finalized policy, the quarters used for validation for the FY 2024 payment determination are 1Q 2021, 2Q 2021, 3Q 2021, and 4Q 2021. Therefore, we propose to extend the effects of educational reviews for 4th quarter data such that an error is identified during the education review process for 4th quarter data, we would use the corrected quarterly score to compute the final confidence interval used for payment determination.

All previously finalized policies with respect to education reviews would apply, such that approximately four months after each quarter’s validation submission deadline, validation results for chart-abstracted measures for the quarter are posted on the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System). Hospitals have 30 calendar days following the date validation results are posted to identify any potential CDAC or CMS errors for the first three quarters of validation results and contact the Validation Support Contractor (VSC) to request an educational review. Upon receipt of an educational review request, we review the data elements identified in the request, as well as the written justifications provided by the hospital. We provide the results of an educational review, outlining the findings of whether the scores were correct or incorrect, to the requesting hospital through a CMS-approved secure file transmission process (82 FR 38402). If an educational review yields incorrect validation results for chart-abstracted measures, we use the corrected quarterly score, as recalculated during the educational review process to compute the final confidence interval (82 FR 38402). We use the revised score identified through an educational review when determining whether or not a hospital failed validation (82 FR 38402). Corrected scores, however, are only used if they indicate that the hospital performed more favorably than previously determined (82 FR 38402). We note that corrections only occur to calculations, not to the underlying measure data (82 FR 38402). We also note that under this proposal, as is currently the process, the quarterly validation reports for the chart-abstracted measures validation issued to hospitals would not be changed to reflect the updated score due to the burden associated with reissuing corrected reports (82 FR 38402).

In addition, this proposal does not apply to the educational review process for eCQMs, which is discussed in the next section.

We invite public comment on our proposal, as previously discussed.

(2) Educational Review Process for eCQMs for Validation Affecting the FY 2023 Payment Determination and Subsequent Years

We refer readers to the FY 2021 IPPS/LTC PPS (85 FR 58953) final rule where we finalized an educational review process for eCQM validation beginning with validations affecting the FY 2023 payment determination and for subsequent years (that is, starting with data from CY 2020). Under that process, hospitals receive eCQM validation results on an annual basis, and have the opportunity to request an educational review once annually following receipt of their results (85 FR 58953). We are not proposing any changes to these policies in this proposed rule.

10. Data Accuracy and Completeness Acknowledgement (DACA) Requirements

We refer readers to the FY 2013 IPPS/LTC PPS final rule (77 FR 53554) for previously adopted details on DACA requirements. We are not proposing any changes to this policy in this proposed rule.

11. Public Display Requirements

a. Background

Section 1886(b)(3)[B][viii][VII] of the Act requires the Secretary to report quality measures of process, structure, outcome, patients’ perspectives on care, efficiency, and costs of care that relate to services furnished in inpatient settings in hospitals on the internet website of CMS. Section 1886(b)(3)[B][viii][VII] of the Act also requires that the Secretary establish procedures for making information regarding measures available to the public after ensuring that a hospital has the opportunity to review its data before they are made public. Our current policy is to report data from the Hospital IQR Program as soon as it is feasible on CMS websites such as the Care Compare website, or its successor

<table>
<thead>
<tr>
<th>Measures Submitted</th>
<th>Required Quarters of Data for Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chart-Abstracted Measures</td>
<td>1Q 2021</td>
</tr>
<tr>
<td></td>
<td>2Q 2021</td>
</tr>
<tr>
<td></td>
<td>3Q 2021</td>
</tr>
<tr>
<td></td>
<td>4Q 2021</td>
</tr>
<tr>
<td>eCQMs</td>
<td>1Q 2021 - 4Q 2021</td>
</tr>
</tbody>
</table>
website, after a 30-day preview period (78 FR 50776 through 50778). We refer readers to the FY 2008 IPPS/LTCH PPS final rule (72 FR 47364), the FY 2011 IPPS/LTCH PPS final rule (75 FR 50230), the FY 2012 IPPS/LTCH PPS final rule (76 FR 51650), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53554), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50836), the FY 2015 IPPS/LTCH PPS final rule (79 FR 50277), the FY 2016 IPPS/LTCH PPS final rule (80 FR 49712 through 49713), the FY 2018 IPPS/LTCH PPS final rule (82 FR 38403 through 38409), the FY 2019 IPPS/LTCH PPS final rule (83 FR 41538 through 41559), and the FY 2021 IPPS/LTCH PPS final rule (85 FR 58953) for details on public display requirements. The Hospital IQR Program quality measures are typically reported on the Care Compare website at https://www.medicare.gov/carecompare, or on other CMS websites such as: medicare.gov/carecompare. We are not proposing any changes to these policies in this proposed rule.

b. Public Reporting of eCQM Data

We direct readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58954 through 58959) where we finalized public reporting requirements of eCQM data reported by hospitals for the CY 2021 reporting period/FY 2023 payment determination and for subsequent years. We note that this policy incrementally increases the eCQM data publicly reported to four quarters of data for the CY 2023 reporting period/FY 2025 payment determination and subsequent years.

We are not proposing any changes to these policies in this proposed rule.

c. Overall Hospital Star Ratings

In the CY 2021 OPPS/ASC final rule with comment period and interim final rule with comment period (85 FR 86193 through 86236), we finalized a methodology to calculate the Overall Hospital Quality Star Rating (Overall Star Ratings). The Overall Star Ratings will utilize data collected on hospital inpatient and outpatient measures that are publicly reported on a CMS website, including data from the Hospital IQR Program. We refer readers to section XVI. of the CY 2021 OPPS/ASC final rule with comment period for details.

We are not proposing any changes to these policies in this proposed rule.

12. Reconsideration and Appeal Procedures

We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51650 through 51651), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50836), and 42 CFR 412.140(e) for details on reconsideration and appeal procedures for the FY 2017 payment determination and subsequent years. We are not proposing any changes to these policies in this proposed rule.

13. Hospital IQR Program Extraordinary Circumstances Exceptions (ECE) Policy

We refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51651 through 51652), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50836 through 50837), the FY 2015 IPPS/LTCH PPS final rule (79 FR 50277), the FY 2016 IPPS/LTCH PPS final rule (80 FR 49713), the FY 2017 IPPS/LTCH PPS final rule (81 FR 57181 through 57182), the FY 2018 IPPS/LTCH PPS final rule (82 FR 38409 through 38411), and 42 CFR 412.140(c)(2) for details on the current Hospital IQR Program ECE policy. We also refer readers to the QualityNet website at: http://www.QualityNet.cms.gov for our current requirements for submission of a request for an exception. We are not proposing any changes to these policies in this proposed rule.

D. Proposed Updates to the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program

1. Background

The PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program is authorized by section 1866(k) of the Act and applies to hospitals described in section 1866(d)(1)(B)(v) (referred to as “PPS-Exempt Cancer Hospitals” or “PCHs”). For additional background information, including previously finalized measures and other policies for the PCHQR Program, we refer readers to the following final rules:

- The FY 2013 IPPS/LTCH PPS final rule (77 FR 53555 through 53567);
- The FY 2014 IPPS/LTCH PPS final rule (78 FR 50837 through 50853);
- The FY 2015 IPPS/LTCH PPS final rule (79 FR 50277 through 50286);
- The FY 2016 IPPS/LTCH PPS final rule (80 FR 49713 through 49723);
- The FY 2017 IPPS/LTCH PPS final rule (81 FR 57182 through 57193);
- The FY 2018 IPPS/LTCH PPS final rule (82 FR 38411 through 38425);
- The FY 2019 IPPS/LTCH PPS final rule (83 FR 41609 through 41624);
- The FY 2020 IPPS/LTCH PPS final rule (84 FR 42509 through 42524); and
- The FY 2021 IPPS/LTCH PPS final rule (85 FR 58959 through 58966).

2. Overview of Proposed Updates to the PCHQR Program and Requests for Information

In section IX.D.4. of this proposed rule, we are proposing to remove the Oncology: Plan of Care for Pain—Medical Oncology and Radiation Oncology (NQF #0383) (PCH–15) measure beginning with the FY 2024 program year. In section IX.D.5. of this proposed rule, we are proposing to adopt the COVID–19 Vaccination Coverage Among Healthcare Personnel measure, beginning with the FY 2023 program year and for subsequent years. In section I.X.D.9. of this proposed rule, we are proposing to update our terminology for this program by replacing the term “QualityNet Administrator” with “QualityNet security official.” In section IX.D.11. of this proposed rule, we are proposing to codify existing PCHQR Program policies at 42 CFR 412.23(f)(3) and 42 CFR 412.24.

We also refer readers to section IX.B of this proposed rule, Closing the Health Equity Gap in CMS Quality Programs—A Request for Information, where we request information on our Equity Plan for Improving Quality in Medicare, which outlines our commitment to closing the health equity gap through improved data collection in order to better measure and analyze disparities across programs and policies. The request for information asks for public comment regarding the potential stratification of quality measure results by race and ethnicity and the potential creation of a hospital equity score in CMS quality reporting and value-based purchasing programs, including the PCHQR Program.

We also refer readers to section IX.A. of this proposed rule where we request information on potential actions we can take to expand the use of the FHIR standard (as described in that section) in furtherance of our goal to move fully to digital quality measurement in CMS quality reporting programs, including the PCHQR Program, and value-based purchasing programs by 2025.

3. Measure Retention and Removal Factors for the PCHQR Program

For a detailed discussion regarding our retention and removal factors, we refer readers to the FY 2017 IPPS/LTCH PPS final rule (81 FR 57182 through 57183), where we adopted policies for measure retention and removal, and the FY 2019 IPPS/LTCH PPS final rule (83 FR 41609 through 41614), where we updated our measure retention factors. We are not proposing any changes to these policies in this proposed rule.
4. Proposed Removal of the Oncology: Plan of Care for Pain—Medical Oncology and Radiation Oncology (NQF #0383) (PCH–15) Measure From the PCHQR Program Beginning With the FY 2024 Program Year

We are proposing to remove the Oncology: Plan of Care for Pain—Medical Oncology and Radiation Oncology (NQF #0383) (PCH–15) (“Oncology: Plan of Care for Pain”) measure from the PCHQR Program beginning with the FY 2024 program year based on Factor-7: It is not feasible to implement the measure specifications. We first adopted the Oncology: Plan of Care for Pain measure for the FY 2016 program year in the FY 2014 IPPS/LTCH PPS final rule (78 FR 50843 through 50844) and we refer readers to this rule for a detailed discussion of the measure. Although we continue to believe the Oncology: Plan of Care for Pain measure provides important data for patients and hospitals in making decisions about care and informing quality improvement efforts, the measure steward has decided to revert to a previous version of the measure that requires a plan of care to address any, rather than just moderate-severe, pain and will no longer maintain the specific version of this measure as it is currently used in the PCHQR Program. In addition, the version of the measure that the measure steward has decided to revert to is designed to be paired with the Medical and Radiation—Pain Intensity Quantified (PCH–16/NQF #0384) measure (78 FR 50843), meaning they were developed to be used together (77 FR 53649). The Medical and Radiation—Pain Intensity Quantified (PCH–16/NQF #0384) measure was removed from the PCHQR Program’s measure set beginning with the FY 2021 program year in the FY 2019 IPPS/LTCH PPS final rule because it was topped-out (83 FR 41611 through 41613).

Through our Meaningful Measures Initiative, we continue to focus on proposing quality measures that will reduce reporting and regulatory burden on providers and accelerate the move to fully digital measures. In the FY 2014 IPPS/LTCH PPS final rule, we stated our intention to simplify measure collection and submission, and to reduce the reporting burden of chart-abstracted measures (78 FR 50810). PCH–15 requires manual chart-abstractation, and we believe this proposal to remove it is aligned with the goals of the Meaningful Measures Initiative and a shift toward the use of digital quality measures.

Further, the PCH–15 measure’s mean and median for the past four years, including FY 2020, demonstrate very high performance with little variation among the 11 PCFs. Accordingly, because the version of the Oncology: Plan of Care for Pain measure that is currently used in the PCHQR Program will no longer be maintained by the measure steward, data show high performance on the measure with little variation, the updated version of the measure is designed to be used with the PCH–16 measure that we previously removed because it was topped-out, and the removal of chart-abstracted measures aligns with CMS goals to move to digital quality measures, we are proposing to remove the Oncology: Plan of Care for Pain measure from the PCHQR measure set.

We invite public comment on our proposal to remove the Oncology: Plan of Care for Pain—Medical Oncology and Radiation Oncology (NQF #0383) (PCH–15) measure from the PCHQR Program beginning with the FY 2024 program year.

5. Proposal To Adopt the COVID–19 Vaccination Coverage Among Health Care Personnel (HCP) Measure Beginning With the FY 2023 Program Year

a. Background

On January 31, 2020, the Secretary declared a public health emergency (PHE) for the United States in response to the global outbreak of SARS–CoV–2, a novel (new) coronavirus that causes a disease named "coronavirus disease 2019" (COVID–19). COVID–19 is a contagious respiratory illness that can cause serious illness and death. Older individuals, racial and ethnic minorities, and those with underlying medical conditions are considered to be at higher risk for more serious complications from COVID–19.

As of April 2, 2021, the U.S. has reported over 30 million cases of COVID–19 and over 550,000 COVID–19 deaths. Hospitals and health systems saw significant surges of COVID–19 patients as community infection levels increased. From December 2, 2020 to January 30, 2021, more than 100,000 Americans were in the hospital with COVID–19 at the same time. Evidence indicates that COVID–19 primarily spreads when individuals are in close contact with one another. The virus is typically transmitted through respiratory droplets or small particles created when someone who is infected with the virus coughs, sneezes, sings, talks or breathes. Thus, the CDC advises that infections mainly occur through exposure to respiratory droplets when a person is in close contact with someone who has COVID–19. Although less common, COVID–19 can also spread when individuals are not in close contact if small droplets or particles containing the virus linger in the air after the person who is infected has left the space. Another means of less common transmission is contact with a contaminated surface. According to the CDC, those at greatest risk of

---

1310 Centers for Disease Control and Prevention. (2021). COVID Data Tracker. Available at: https://covid.cdc.gov/covid-data-tracker/#cases_casesper100klast7days.


infection are persons who have had prolonged, unprotected close contact (that is, within 6 feet for 15 minutes or longer) with an individual with confirmed COVID–19 infection, regardless of whether the individual has symptoms. Although personal protective equipment (PPE) and other infection-control precautions can reduce the likelihood of transmission in health care settings, COVID–19 can spread between health care personnel (HCP) and patients given the close contact that may occur during the provision of care. The CDC has emphasized that health care settings, including long-term care settings, can be high-risk places for COVID–19 exposure and transmission.

Vaccination is a critical part of the nation’s strategy to effectively counter the spread of COVID–19 and ultimately help restore societal functioning. On December 11, 2020, the FDA issued the first Emergency Use Authorization (EUA) for a COVID–19 vaccine in the U.S. Subsequently, the FDA issued EUAs for all additional COVID–19 vaccines. As part of its national strategy to address COVID–19, the Biden Administration stated on March 25, 2021 that it would work with states and the private sector to execute an aggressive vaccination strategy and outlined a goal of administering 200 million shots in 100 days.

Although the goal of the U.S. government is to ensure that every American who wants to receive a COVID–19 vaccine can receive one, Federal agencies recommended that early vaccination efforts focus on those critical to the PHE response, including HCP providing direct care to patients with COVID–19, and individuals at highest risk for developing severe illness from COVID–19. For example, the CDC’s Advisory Committee on Immunization Practices (ACIP) recommended that HCP should be among those individuals prioritized to receive the initial, limited supply of the COVID–19 vaccine, given the potential for transmission in health care settings and the need to preserve health care system capacity. Research suggests most states followed this recommendation, and HCP began receiving the vaccine in mid-December of 2020.

Frontline healthcare workers, such as those employed in PCHs, are being prioritized for vaccination in most locations. There are approximately 18 million healthcare workers in the United States. As of April 3, 2021, the CDC reported that over 162 million doses of COVID–19 vaccine had been administered, and approximately 60 million people had received full doses. President Biden indicated on April 6, 2021 that the United States has sufficient vaccine supply to make every adult eligible to receive a vaccine before April 19, 2021.

We believe it is important to require that PCHs report their rates of HCP vaccination in order to assess whether they are taking steps to limit the spread of COVID–19 among their HCP, and to help sustain the ability of U.S. hospitals to continue serving their communities throughout the pandemic.

Accordingly, we are proposing a new measure, COVID–19 Vaccination Coverage Among HCP (COVID–19 vaccination measure), beginning with the FY 2023 program year. For that program year, PCHs would be required to report data on the measure for the fourth quarter of CY 2021 that is, from October 2021 through December 2021. For more information about the proposed reporting period, see section IX.D.5.c. of this proposed rule. The measure will assess the proportion of a PCH’s HCP that has been vaccinated against COVID–19.

Although data showing the effectiveness of COVID–19 vaccines to prevent asymptomatic infection or transmission of SARS–CoV–2 are limited at this time, we believe PCHs should report their rates of vaccination among their HCP as part of their efforts to assess and reduce the risk of transmission of COVID–19. HCP vaccination can potentially reduce illness that leads to work absence and limit disruptions to care. Data from influenza vaccination demonstrates that provider uptake of the vaccine is also associated with that provider recommending vaccination to patients, and we believe HCP COVID–19 vaccination in PCHs could similarly increase uptake among that patient population. We also believe that publishing the HCP vaccination rates will be helpful to many patients, including those who are at high-risk for developing serious complications from COVID–19, as they choose PCHs from which to seek treatment. Under CMS’ Meaningful Measures Framework, the COVID–19 HCP vaccination measure...
addresses the quality priority of “Promote Effective Prevention and Treatment of Chronic Disease” through the Meaningful Measures Area of “Preventive Care.”  

b. Overview of Measure

The COVID–19 Vaccination Coverage Among HCP measure (“COVID–19 HCP vaccination measure”) is a process measure developed by the CDC to track COVID–19 vaccination coverage among HCP in non-long-term care facilities such as PCHs.

(1) Measure Specifications

The denominator is the number of HCP eligible to work in the PCH for at least one day during the reporting period (as described in section IX.D.5.c.), excluding persons with contraindications to COVID–19 vaccination that are described by the CDC.1341

The numerator is the cumulative number of HCP eligible to work in the PCH for at least one day during the reporting period (as described in section IX.D.5.c.) who received a complete vaccination course against COVID–19 using an FDA-authorized vaccine for COVID–19 (whether the FDA issued an approval or EUA). A complete vaccination course is defined under the specific FDA authorization (either the EUM or the approval) and may require multiple doses or regular revaccination.1342 Vaccination coverage is defined, for purposes of this measure, as the percentage of HCP eligible to work at the PCH for at least one day who received a complete vaccination course against COVID–19. The proposed specifications for this measure are available at https://www.qualityforum.org/Project_Coordinating_Committee.aspx.

(2) Review by the Measure Applications Partnership (MAP)

The COVID–19 HCP vaccination measure was included on the publicly available “List of Measures under Consideration for December 21, 2020,”1343 a list of measures under consideration for use in various Medicare programs. When the Measure Applications Partnership (MAP) Hospital Workgroup convened on January 11, 2021, it reviewed the measures on the MUC List, including the COVID–19 HCP vaccination measure. The MAP Hospital Workgroup recognized that the proposed measure represents a promising effort to advance measurement for an evolving national pandemic and that it would bring value to the PCHQR Program measure set by providing transparency about an important COVID–19 intervention to help prevent infections in HCP and patients.1344 The MAP Hospital Workgroup also stated that collecting information on COVID–19 vaccination coverage among HCP and providing feedback to PCHs will allow PCHs to benchmark vaccine coverage rates and improve their vaccine coverage rates, and that reducing rates of COVID–19 in healthcare personnel may reduce transmission among patients and reduce instances of staff shortages due to illness.1345

In its preliminary recommendations, the MAP Hospital Workgroup did not support this measure for rulemaking, subject to potential for mitigation.1346 To mitigate its concerns, the MAP Hospital Workgroup believed that the measure needed well-documented evidence, finalized specifications, testing, and NQF endorsement prior to implementation.1347 Subsequently, the MAP Coordinating Committee met on January 25, 2021 and reviewed the COVID–19 Vaccination Coverage Among HCP measure. In the 2020–2021 MAP Final Recommendations issued March 11, 2021, the map offered conditional support for rulemaking contingent on CMS bringing the measure back to the MAP once the specifications are further refined, specifically saying that “the incomplete specifications require immediate mitigation and further development should continue.” 1348 In its final report, the MAP noted that the measure would add value to the program measure set by providing visibility into an important intervention to limit COVID–19

In response to the MAP final recommendation request that CMS bring the measure back to the MAP once the specifications are further refined, CMS and the CDC met with the MAP Coordinating Committee on March 15th. CMS and the CDC provided additional information to the MAP Coordinating Committee at that meeting that addressed vaccine availability, the alignment of the COVID–19 vaccination measure specifications as closely as possible with the Influenza HCP vaccination measure (NQF 0431) specifications, and the definition of HCP used in the measure. At this meeting, CMS and the CDC also presented preliminary findings from the testing of the numerator of COVID–19 Vaccination Coverage Among HCP, which is currently in process. These preliminary findings showed that the numerator data should be feasible and reliable. Testing of the numerator of the number of healthcare personnel vaccinated involves a comparison of vaccination data collected by the CDC directly from long-term care facilities (LTCs) through NHSN with vaccination data independently reported to the CDC through the Federal pharmacy partnership program. These are two completely independent data collection systems. In initial analyses of the first month of vaccination from December 2020 to January 2021, of HCP vaccination in approximately 1,200 facilities which report data to both systems, the number of healthcare personnel vaccinated was highly correlated between these 2 systems with a correlation coefficient of nearly 90 percent in the second two weeks of reporting.1350 Because of the high correlation across a large number of facilities and high number of HCP within those facilities receiving at least


one dose of the COVID–19 vaccine, we believe these data indicates the measure is feasible and reliable for use in PCHs.

We value the recommendations of the MAP and considered these recommendations carefully. Section 1890A(a)(4) of the Act requires the Secretary to take into consideration input from multi-stakeholder groups in selecting quality and efficiency measures. While we value input from the MAP, we believe it is important to propose the measure as quickly as possible to address the urgency of the COVID–19 PHE and its impact on PCHs and the vulnerable populations they serve. CMS continues to engage with the MAP to mitigate its concerns and appreciates the MAP’s conditional support for the measure.

(3) NQF Endorsement

Section 1866(k)(3)(A) of the Act states that subject to subparagraph (B), any measure specified by the Secretary for the PCHQR Program must have been endorsed by the entity with a contract under section 1890(a) of the Act. The National Quality Forum (NQF) currently holds this contract. Under section 1866(k)(3)(B), in the case of a specified area or medical topic determined appropriate by the Secretary for which a feasible and practical measure has not been endorsed by the entity with a contract under section 1890(a) of the Act, the Secretary may specify a measure that is not so endorsed as long as due consideration is given to measures that have been endorsed or adopted by a consensus organization identified by the Secretary.

The proposed COVID–19 Vaccination Coverage Among HCP measure is not NQF endorsed and has not been submitted to NQF for endorsement consideration.

Because this measure is not NQF-endorsed, we considered whether there are other available measures that assess COVID–19 vaccination rates among HCP. We found no other feasible and practical measures on the topic of COVID–19 vaccination among HCP, therefore the exception in section 1866(k)(3)(B) of the Act applies.

c. Data Collection, Submission and Reporting

Given the time sensitive nature of this measure considering the current PHE, we are proposing that for the FY 2023 program year, the reporting period for the proposed COVID–19 Vaccination Coverage Among HCP measure would be from October 1, 2021 through December 31, 2021. Thereafter, we propose quarterly reporting deadlines for the PCHQR Program. If our proposal to adopt this measure is finalized, PCHs would report the measure through the NHSN web-based surveillance system.1351 PCHs currently use the NHSN web-based system to report five HAI measures for the PCHQR Program, as well as the Influenza Vaccination Coverage Among HCP (NQF #0431). To report this measure, we are proposing that PCHs would collect the numerator and denominator for the COVID–19 HCP vaccination measure for at least one self-selected week during each month of the reporting quarter and submit the data to the NHSN Healthcare Personal Safety (HPS) Component before the quarterly deadline to meet PCHQR Program requirements. While we believe that it would be ideal to have HCP vaccination data for every week of each month, we are mindful of the time and resources that PCHs would need to report the data. Thus, in collaboration with the CDC, we determined that data from at least one week of each month would be sufficient to obtain a reliable snapshot of vaccination levels among a


PCH’s healthcare personnel while balancing the costs of reporting. If a PCH submits more than one week of data in a month, the most recent week’s data would be used to calculate the measure. For example, if first and third week data are submitted, third week data would be used. If first, second, and fourth week data are submitted, fourth week data would be used. Each quarter, we are proposing that the CDC would calculate a single quarterly COVID–19 HCP vaccination coverage rate for each PCH, which would be calculated by taking the average of the data from the three weekly rates submitted by the PCH for that quarter. If finalized, CMS would publicly report each quarterly COVID–19 HCP vaccination coverage rate as calculated by the CDC.

As described in section IX.D.5.b.(1), PCHs would report the number of HCP eligible to have worked at the facility during the self-selected week that the PCH reports data for in NHSN (denominator) and the number of those HCP who have received a complete course of a COVID–19 vaccination (numerator) during the same self-selected week.

We invite public comment on our proposal to add a new measure, COVID–19 Vaccination Coverage Among HCP, to the PCHQR Program beginning with the FY 2023 program year, with a October 1, 2021 through December 31, 2021 reporting period for that program year, and continuing with quarterly reporting deadlines for subsequent PCHQR Program years.

6. Summary of PCHQR Program Measures for the FY 2023 Program Year and Subsequent Years

This table summarizes the PCHQR Program measure set for the FY 2023 program year and subsequent years if our proposal to adopt the COVID–19 Vaccination Coverage Among HCP measure is finalized.
7. Maintenance of Technical Specifications for Quality Measures

We maintain and periodically update technical specifications for the PCHQR Program measures. The specifications may be found on the QualityNet website at: https://qualitynet.cms.gov/pch. We also refer readers to the FY 2015 IPPS/LTCH PPS final rule (79 FR 50281), where we adopted a policy to use a subregulatory process to make nonsubstantive updates to measures used for the PCHQR Program. We are not proposing any changes to our processes for maintaining technical specifications for PCHQR Program measures.

8. Public Display Requirements

Under section 1866(k)(4) of the Act, we are required to establish procedures for making the data submitted under the PCHQR Program available to the public. For additional information regarding previously finalized public display requirements and policies, we refer readers to previous final rules.

### FY 2023 PCHQR Program Measure Set and Subsequent Years

<table>
<thead>
<tr>
<th>Short Name</th>
<th>NQF Number</th>
<th>Measure Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAUTI</td>
<td>0138</td>
<td>National Healthcare Safety Network (NHSN) Catheter-associated Urinary Tract Infection (CAUTI) Outcome Measure</td>
</tr>
<tr>
<td>CLABSII</td>
<td>0139</td>
<td>National Healthcare Safety Network (NHSN) Central line-associated Bloodstream Infection (CLABSII) Outcome Measure</td>
</tr>
<tr>
<td>HCP</td>
<td>0431</td>
<td>Influenza Vaccination Coverage Among Healthcare Personnel</td>
</tr>
<tr>
<td>Colon and Abdominal Hysterectomy SSI</td>
<td>0753</td>
<td>American College of Surgeons – Centers for Disease Control and Prevention (ACS-CDC) Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure [currently includes SSIs following Colon Surgery and Abdominal Hysterectomy Surgery]</td>
</tr>
<tr>
<td>MRSA</td>
<td>1716</td>
<td>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Methicillin-resistant <em>Staphylococcus aureus</em> (MRSA) Bacteremia Outcome Measure</td>
</tr>
<tr>
<td>CDI</td>
<td>1717</td>
<td>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset <em>Clostridium difficile</em> Infection (CDI) Outcome Measure</td>
</tr>
<tr>
<td>COVID-19 HCP Vaccination</td>
<td>N/A</td>
<td>COVID-19 Vaccination Coverage Among HCP*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinical Process/Oncology Care Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOL-Chemo</td>
</tr>
<tr>
<td>EOL-Hospice</td>
</tr>
<tr>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intermediate Clinical Outcome Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOL-ICU</td>
</tr>
<tr>
<td>EOL-3DH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient Engagement/Experience of Care Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCAHPS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Claims Based Outcome Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
</tr>
</tbody>
</table>

* Measure proposed for adoption beginning with FY 2023.
** Measure proposed for removal beginning with FY 2024.
In the table that follows, we summarize our current public display requirements for the PCHQR Program measures. The PCHQR measures' performance data is made publicly available on a CMS website, which is currently the Provider Data Catalog, available at: https://data.cms.gov/provider-data/. We are not proposing any changes to these public display requirements.

### Finalized Public Display Requirements for PCHQR Program

<table>
<thead>
<tr>
<th>Summary of Finalized Public Display Requirements</th>
<th>Public Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures</td>
<td></td>
</tr>
<tr>
<td>• HCAHPS (NQF #0166)</td>
<td>2016 and subsequent years</td>
</tr>
<tr>
<td>• Oncology: Plan of Care for Pain – Medical Oncology and Radiation Oncology (NQF #0383)*</td>
<td></td>
</tr>
<tr>
<td>• American College of Surgeons – Centers for Disease Control and Prevention (ACS-CDC) Harmonized Procedure Specific Surgical Site Infection (SSI) Outcome Measure [currently includes SSIs following Colon Surgery and Abdominal Hysterectomy Surgery] (NQF #0753)</td>
<td>2019 and subsequent years</td>
</tr>
<tr>
<td>• National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset Methicillin-resistant <em>Staphylococcus aureus</em> Bacteremia Outcome Measure (NQF #1716)</td>
<td></td>
</tr>
<tr>
<td>• National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset <em>Clostridium difficile</em> Infection (CDI) Outcome Measure (NQF #1717)</td>
<td></td>
</tr>
<tr>
<td>• National Healthcare Safety Network (NHSN) Influenza Vaccination Coverage Among Healthcare Personnel (NQF #0431)</td>
<td></td>
</tr>
<tr>
<td>• Admissions and Emergency Department (ED) Visits for Patients Receiving Outpatient Chemotherapy</td>
<td>April 2020 and subsequent years</td>
</tr>
<tr>
<td>• CAUTI (NQF #0138)</td>
<td>Deferred until CY 2022</td>
</tr>
<tr>
<td>• CLABSI (NQF #0139)</td>
<td></td>
</tr>
</tbody>
</table>

*Measure proposed for removal, beginning with the FY 2024 program year.

9. **Form, Manner, and Timing of Data Submissions**

   a. **Procedural Requirements**

   We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53563 through 53567) for our previously finalized procedural requirements for the PCHQR Program. Data submission requirements and deadlines for the PCHQR Program are posted on the QualityNet website.

   b. **Proposal To Update Reference to QualityNet Administrator**

   Under our current procedural requirements, each PCH that participates in the PCHQR Program must identify one or more QualityNet Administrators who will follow the registration process located on the QualityNet website (https://qualitynet.cms.gov) (77 FR 53563).

   In this proposed rule, we propose to use the term “QualityNet security official” instead of “QualityNet Administrator” to align with the terminology we use or are proposing to use in other quality reporting programs. This proposed update in terminology would not change the individual’s responsibilities or add burden.

   Additionally, we are clarifying that failing to maintain an active QualityNet security official once a PCH has successfully registered to participate in the PCHQR Program will not result in a finding that the PCH did not successfully participate in the PCHQR Program.

   We invite public comment on our proposal to replace the term “QualityNet administrator” with “QualityNet security official.”

   **10. Extraordinary Circumstances Exceptions (ECE) Policy Under the PCHQR Program**

   We refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41623 through 41624), for a discussion of the Extraordinary Circumstances Exceptions (ECE) policy under the PCHQR Program. We are not proposing any changes to this policy.

   **11. Proposal To Codify PCHQR Program Requirements at New 42 CFR 412.23(f) and New 42 CFR 412.24 of Our Regulations**

   There are currently no codified PCHQR Program requirements in our regulations. Accordingly, as we have done with a number of other CMS quality reporting programs, we are proposing to add a new section at 42 CFR 412.24 entitled, “Requirements under the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program” that codifies the program requirements listed in this proposed rule and a new paragraph (3) to 42 CFR 412.23(f) that requires cancer hospitals that participate in the PCHQR Program to follow all such program requirements. We believe that the codification of these requirements will make it easier for stakeholders to find these requirements.

   Specifically, we propose to amend 42 CFR 412.23(f) by adding a new paragraph (3) that requires cancer hospitals, as classified under that paragraph, participating in the PCHQR Program to follow all requirements listed in the new section 42 CFR 412.24.
We also propose to add a new section at 42 CFR 412.24 that contains the regulations that govern the PCHQR Program:

- Program participation requirements (adopted in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53563)) including the PCHQR Program registration process;

- Data submission requirements for quality measures (adopted in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53563)) that are selected by CMS under section 1866(k) of the Act and must be submitted in a form and manner, and at a time, specified by CMS;

- Quality measure removal and retention factors (adopted in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57182 through 57183) and expanded in FY 2019 IPPS/LTCH PPS final rule (83 FR 41609 through 41611));

- Public reporting requirements for quality measure data reported by PCHs, with measure information displayed on the CMS website (adopted in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57191)); and

- Our extraordinary circumstances exception policy (adopted in the FY 2014 IPPS/LTCH PPS final rule (78 FR 50848) and updated in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38424 through 38425)) detailing the process for CMS to grant an extension or exception to quality measure reporting requirements under the PCHQR Program.

We welcome public comment on the proposed codification of these existing PCHQR Program policies.

E. Long-Term Care Hospital Quality Reporting Program (LTCH QRP)

1. Background and Statutory Authority

The Long-Term Care Hospital Quality Reporting Program (LTCH QRP) is authorized by section 1886(m)(5) of the Act, and it applies to all hospitals certified by Medicare as Long-Term Care Hospitals (LTCHs). Section 1886(m)(5)(C) of the Act requires LTCHs to submit to the Secretary quality measure data specified under section 1886(m)(5)(D) in a form and manner, and at a time, specified by the Secretary. In addition, section 1886(m)(5)(F) of the Act requires LTCHs to submit data on quality measures under section 1899B(c)(1) of the Act, resource use or other measures under section 1899B(d)(1) of the Act, and standardized patient assessment data required under section 1899B(b)(1) of the Act. LTCHs must submit the data required under section 1886(m)(5)(F) of the Act in the form and manner, and at the time, specified by the Secretary. Under the LTCH QRP, the Secretary must reduce by 2 percentage points the annual update to the LTCH PPS standard Federal rate for discharges for an LTCH during a fiscal year if the LTCH has not complied with the LTCH QRP requirements specified for that fiscal year. For more information on the background for the LTCH QRP, we refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51743 through 51744), the FY 2013 IPPS/LTCH PPS final rule (77 FR 53614), the FY 2014 IPPS/LTCH PPS final rule (78 FR 50853), the FY 2015 IPPS/LTCH PPS final rule (79 FR 50226), the FY 2016 IPPS/LTCH PPS final rule (80 FR 49723 through 49725), the FY 2017 IPPS/LTCH PPS final rule (81 FR 57193), the FY 2018 IPPS/LTCH PPS final rule (82 FR 38425 through 38426), the FY 2019 IPPS/LTCH PPS final rule (83 FR 41624 through 41634), and the FY 2020 IPPS/LTCH PPS final rule (84 FR 42524 through 42591). For more information on the requirements under the LTCH QRP, we refer readers to 42 CFR 412.560.

2. General Considerations Used for the Selection of Quality Measures for the LTCH QRP

For a detailed discussion of the considerations we historically use for the selection of LTCH QRP quality, resource use, and other measures, we refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49728).

3. Quality Measures Currently Adopted for the FY 2022 LTCH QRP

The LTCH QRP currently has 17 measures for the FY 2022 LTCH QRP, which are set out in the following IX.E.-01. For a discussion of the factors used to evaluate whether a measure should be removed from the LTCH QRP, we refer readers to the FY 2019 IPPS/LTCH PPS Final Rule (83 FR 41624 through 41634) and to the regulations at 42 CFR 412.560(b)(3).
### Table IX.E.-01. Quality Measures Currently Adopted for the FY 2022 LTCH QRP

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name &amp; Data Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Ulcer/Injury</td>
<td>Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury</td>
</tr>
<tr>
<td>Application of Falls</td>
<td>Application of Percent of Residents Experiencing One or More Falls with Major Injury (Long Stay) (NQF #0674)</td>
</tr>
<tr>
<td>Functional Assessment</td>
<td>Percent of Long-Term Care Hospital (LTCH) Patients with an Admission and Discharge Functional Assessment and a Care Plan That Addresses Function (NQF #2631)</td>
</tr>
<tr>
<td>Application of Functional Assessment/ Care Plan</td>
<td>Application of Percent of Long-Term Care Hospital (LTCH) Patients with an Admission and Discharge Functional Assessment and a Care Plan That Addresses Function (NQF #2631)</td>
</tr>
<tr>
<td>Change in Mobility</td>
<td>Functional Outcome Measure: Change in Mobility Among Long-Term Care Hospital (LTCH) Patients Requiring Ventilator Support (NQF #2632)</td>
</tr>
<tr>
<td>DRR</td>
<td>Drug Regimen Review Conducted With Follow-Up for Identified Issues–Post Acute Care (PAC) Long-Term Care Hospital (LTCH) Quality Reporting Program (QRP)</td>
</tr>
<tr>
<td>Compliance with SBT</td>
<td>Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay</td>
</tr>
<tr>
<td>Ventilator Liberation</td>
<td>Ventilator Liberation Rate</td>
</tr>
<tr>
<td>TOH–Provider*</td>
<td>Transfer of Health Information to the Provider Post-Acute Care (PAC)</td>
</tr>
<tr>
<td>TOH–Patient*</td>
<td>Transfer of Health Information to the Patient Post-Acute Care (PAC)</td>
</tr>
</tbody>
</table>
The measure steward changed the name of the measure from SARS-CoV–2 Vaccination Coverage among Healthcare Personnel to COVID–19 Vaccination Coverage among Healthcare Personnel. There were no changes to the measure itself, other than the name change.


In response to the COVID-19 public health emergency (PHE), CMS released an Interim Final Rule (85 FR 27595 through 27597) which delayed the compliance date for the collection and reporting of the Transfer of Health Information measures for at least one full fiscal year after the end of the PHE.

1352 The measure steward changed the name of the measure from SARS-CoV–2 Vaccination Coverage among Healthcare Personnel to COVID–19 Vaccination Coverage among Healthcare Personnel. There were no changes to the measure itself, other than the name change.

1353 COVID–19 is a contagious respiratory infection that can cause serious illness and death. Older individuals, racial and ethnic minorities, and those with chronic medical conditions and vulnerabilities are especially vulnerable to serious illness and death.

minorities, and those with underlying medical conditions are considered to be at higher risk for more serious complications from COVID–19. As of April 10, 2021, the U.S. reported over 30 million cases of COVID–19 and over 558,000 COVID–19 deaths. Hospitals and health systems saw significant surges of COVID–19 patients as community infection levels increased. In December 2020 and January 2021, media outlets reported that more than 100,000 Americans were in the hospital with COVID–19.

Evidence indicates that COVID–19 primarily spreads when individuals are in close contact with one another. The virus is typically transmitted through respiratory droplets or small particles created when someone who is infected with the virus coughs, sneezes, sings, talks or breathes. Experts believe that COVID–19 spreads less commonly through contact with a contaminated surface and is not thought to be a common way that COVID–19 spreads, and that in certain circumstances, infection can occur through airborne transmission. According to the CDC, those at greatest risk of infection are persons who have had prolonged, unprotected close contact (that is, within 6 feet for 15 minutes or longer) with an individual with confirmed SARS–CoV–2 infection, regardless of whether the individual has symptoms. Although personal protective equipment (PPE) and other infection-control precautions can reduce the likelihood of transmission in healthcare settings, COVID–19 can spread between healthcare personnel (HCP) and patients given the close contact that may occur during the provision of care. The CDC has emphasized that healthcare settings, including LTCFs, can be high-risk places for COVID–19 exposure and transmission. Vaccination is a critical part of the nation’s strategy to effectively counter the spread of COVID–19 and ultimately help restore societal functioning.

On December 11, 2020, the Food and Drug Administration (FDA) issued the first Emergency Use Authorization (EUA) for a COVID–19 vaccine in the U.S. Subsequently the FDA issued EUAs for additional COVID–19 vaccines. In issuing these EUAs, the FDA determined that it was reasonable to conclude that the known and potential benefits of each vaccine, when used as authorized to prevent COVID–19, outweighed its known and potential risks.

As part of its national strategy to address COVID–19, the current administration stated that it would work with states and the private sector to execute an aggressive vaccination strategy and has outlined a goal of administering 200 million shots in 100 days. Although the goal of the U.S. government is to ensure that every American who wants to receive a COVID–19 vaccine can receive one, Federal agencies recommended that early vaccination efforts focus on those critical to the PHE response, including HCP and individuals at highest risk for developing severe illness from COVID–19. For example, the CDC’s Advisory Committee on Immunization Practices (ACIP) recommended that HCP should be among those individuals prioritized to receive the initial, limited supply of the COVID–19 vaccine, given the potential for transmission in healthcare settings and the need to preserve healthcare system capacity.

Research suggests most states followed this recommendation, and began receiving the vaccine in mid-December of 2020. HCP are at risk of carrying COVID–19 infection to patients, experiencing

1359 Centers for Disease Control and Prevention. (2019-2020). COVID–19 Hospitalizations, Newly Reported Cases, Deaths. Through airborne transmission. The CDC has emphasized that healthcare settings, including LTCFs, can be high-risk places for COVID–19 exposure and transmission. Vaccination is a critical part of the nation’s strategy to effectively counter the spread of COVID–19 and ultimately help restore societal functioning.
1369 Ibid.
1371 The Advisory Committee on Immunization Practices’ Interim Recommendations for Allocating Initial Supplies of COVID–19 Vaccine—United States, 2020. Morb. Mortal Wkly Rep. 2020; 69(49): 1857–1859. ACIP also recommended that long-term care residents be prioritized to receive the vaccine, given their age, high levels of underlying medical conditions, and congregate living situations make them high risk for severe illness from COVID–19.
illness or death as a result of COVID–19 themselves, and transmitting it to their families, friends, and the general public. We believe it is important to require that LTCHs report COVID–19 HCP vaccination in order to assess whether they are taking steps to limit the spread of COVID–19 among their HCP, reduce the risk of transmission of COVID–19 within their facilities, and to help sustain the ability of LTCHs to continue serving their communities throughout the PHE and beyond. We also believe that publishing facility-level COVID–19 HCP vaccination rates on Care Compare would be helpful to many patients, including those who are at high-risk for developing serious complications from COVID–19, as they choose facilities from which to seek treatment. Under the Meaningful Measures framework, the COVID–19 Vaccination Coverage among Healthcare Personnel measure addresses the quality priority of “Promote Effective Prevention & Treatment of Chronic Disease” through the Measurement Area of “Preventive Care.” Therefore, we are proposing a new measure, COVID–19 Vaccination Coverage among HCP to assess the proportion of an LTCH’s healthcare workforce that has been vaccinated against COVID–19.

(2) Stakeholder Input

In our development and specification of the measure, a transparent process was employed to seek input from stakeholders and national experts and engage in a process that allows for pre-rulemaking input on each measure, under section 1890A of the Act. To meet this requirement, the following opportunity was provided for stakeholder input.

The pre-rule making process includes making publicly available a list of quality and efficiency measures, called the Measures Under Consideration (MUC) List that the Secretary is considering adopting, through Federal rulemaking process, for use in Medicare program(s). This allows multi-stakeholder groups to provide recommendations to the Secretary on the measures included on the list. The COVID–19 Vaccination Coverage among Healthcare Personnel measure was included on the publicly available “List of Measures under Consideration for December 21, 2020” (MUC List).1378

Five comments were received from industry stakeholders during the pre-rulemaking process on the COVID–19 Vaccination Coverage among HCP measure, and support was mixed. Commenters generally supported the concept of the measure. However, there was concern about the availability of the vaccine and measure definition for HCP, and some commenters encouraged CMS to continue to update the measure as new evidence comes in.

(3) Measure Applications Partnership (MAP) Review

When the Measure Applications Partnership (MAP) Post-Acute Care/Long-Term Care (PAC–LTC) Workgroup convened on January 11, 2021, it reviewed the MUC List and the COVID–19 Vaccination Coverage among HCP measure. The MAP recognized that the proposed measure represents a promising effort to advance measurement for an evolving national pandemic and that it would bring value to the LTCH QRP measure set by providing transparency about an important COVID–19 intervention to help limit COVID–19 infections. The MAP also stated that collecting information on COVID–19 vaccination coverage among healthcare personnel and providing feedback to facilities would allow facilities to benchmark coverage rates and improve coverage in their facility, and that reducing rates of COVID–19 in healthcare personnel may reduce transmission among patients and reduce instances of staff shortages due to illness.

In its preliminary recommendations, the MAP PAC–LTC Workgroup did not support this measure for rulemaking, subject to potential for mitigation. To mitigate its concerns, the MAP believed that the measure needed well-documented evidence, finalized specifications, testing, and NQF endorsement prior to implementation. Subsequently, the MAP Coordinating Committee met on January 25, 2021, and reviewed the COVID–19 Vaccination Coverage among Healthcare Personnel measure. In the 2020–2021 MAP Final Recommendations, the MAP offered conditional support for rulemaking contingent on CMS bringing the measures back to MAP once the specifications are further clarified. The final MAP report is available at http://www.qualityforum.org/Publications/2021/03/MAP_2020-2021_Considerations_for_Implementing_Measures_Final_Report_-_Clinicians_Hospitals_and_PAC-LTC.aspx.

In response to the MAP request for CMS to bring the measure back once the specifications were further clarified, CMS met with the MAP Coordinating Committee on March 15, 2021. First, CMS and CDC clarified the alignment of the COVID–19 Vaccination Coverage among HCP with the Influenza Vaccination Coverage among HCP (NQF #0431), an NQF-endorsed measure since 2012. The COVID–19 Vaccination Coverage among HCP measure is calculated using the same approach as the Influenza Vaccination Coverage among HCP measure. The approach to identifying HCPs eligible for the COVID–19 vaccination is analogous to those used in the NQF endorsed flu measure which underwent rigorous review from technical experts about the validity of that approach and for which ultimately received NQF endorsement. More recently, prospective cohorts of health care personnel, first responders, and other essential and frontline workers over 13 weeks in eight U.S. locations confirmed that authorized COVID–19 vaccines are highly effective in real-world conditions. Vaccine effectiveness of full immunization with two doses of vaccines was 90%,1384 additionally, to support the measure’s data element validity, the CDC conducted testing of the COVID–19 vaccination numerator using data collected through the NHSN and independently reported through the Federal Pharmacy Partnership for Long-term Care Program for delivering vaccines to long-term care facilities. These are two completely independent data collection systems. In initial analyses of the first month of vaccination for approximately 1,200 facilities that had data from both systems, the number of HCP vaccinated was highly correlated between these two systems with a correlation coefficient of nearly 90 percent in the second two


1380 Ibid.

1381 Ibid.

1382 Ibid.

1383 Ibid.

1384 Centers for Disease Control and Prevention. Morbidity and Mortality Weekly Report. March 29, 2021. Available at: https://www.cdc.gov/mmwr/volumes/70/wr/mm7013e3.htm?s_cid=mm7013e3_w.

1385 The Influenza Vaccination Coverage among Healthcare Personnel (NQF #0431) measure which is NQF endorsed and was adopted in the IRF QRF in the FY 2014 IRF PPS Final Rule (78 FR 47965 through 47996), and in the LTCH QRP in the FY 2013 IPPS/LTC PPS Final Rule (77 FR 53630 through 53631).
weeks of reporting. Of note, assessment of data element reliability may not be required by NQF if data element validity is demonstrated.\textsuperscript{1385} To assess the validity of new performance measure score (in the case, percentage of COVID–19 vaccination coverage), NQF allows assessment by face validity (that is, subjective determination by experts that the measure appears to reflect quality of care, done through a systematic and transparent process),\textsuperscript{1386} and the MAP concurred with the face validity of the COVID–19 Vaccination Coverage among HCP measure. Materials from the March 15, 2021 MAP Coordinating Committee meeting can be found on the NQF website here: \url{https://www.qualityforum.org/ProjectMaterials.aspx?projectId=75367}.

This measure is not NQF endorsed, but the CDC, in collaboration with CMS, plans to submit the measure for NQF endorsement in the future.

(4) Competing and Related Measures

Section 1886(m)(5)[D](i) of the Act requires that absent an exception under section 1886(m)(5)[D](ii) of the Act, measures specified under section 1886(m)(5)[D] of the Act be endorsed by the entity with a contract under section 1890(a) of the Act, currently the National Quality Forum (NQF). In the case of a specified area or medical topic determined appropriate by the Secretary for which a feasible and practical measure has not been endorsed, section 1886(m)(5)[D] of the Act permits the Secretary to specify a measure that is not so endorsed, as long as due consideration is given to the measures that have been endorsed or adopted by a consensus organization identified by the Secretary. Section 1899B(e)(2)(A) of the Act requires that subject to section 1899B(e)(2)(B) of the Act, each measure specified by the Secretary under section 1899B of the Act be endorsed by the entity with a contract under section 1890(a) of the Act. However, in the case of a specified area or medical topic determined appropriate by the Secretary for which a feasible and practical measure has not been endorsed by the entity with a contract under section 1890(a) of the Act, the Secretary may specify a measure that is not so endorsed as long as due consideration is given to measures that have been endorsed or adopted by a consensus organization identified by the Secretary. The proposed COVID–19 Vaccination Coverage among HCP measure is not currently NQF endorsed and has not been submitted to the NQF for consideration, so we considered whether there are other available measures that assess COVID–19 vaccinations among HCP. After review of the NQF’s consensus-endorsed measures, we were unable to identify any NQF-endorsed measures for LTCHs focused on capturing COVID–19 vaccination coverage among HCP, and we found no other feasible and practical measure on the topic of COVID–19 vaccination coverage among HCP. The only other vaccination coverage of HCP measure we found was the Influenza Vaccination Coverage among Healthcare Personnel (NQF #0431) measure which is NQF endorsed and was adopted in the LTCH QRP in the FY 2013 IPPS/LTC PPS Final Rule (77 FR 53630 through 53631).

Given the novel nature of the SARS-CoV–2 virus, and the significant and immediate risk it poses in LTCHs, we believe it is necessary to propose the measure as soon as possible. Therefore, after consideration of other available measures that assess COVID–19 vaccination rates among HCP, we believe the exception under section 1899B(e)(2)(B) of the Act applies. This proposed measure has the potential to generate actionable data on vaccination rates that can be used to target quality improvement among LTCH providers.

(5) Quality Measure Calculation

The COVID–19 Vaccination Coverage among Healthcare Personnel (HCP) measure is a process measure developed by the CDC to track COVID–19 vaccination coverage among HCP in facilities such as LTCHs. Since this proposed measure is a process measure, rather than an outcome measure, it does not require risk-adjustment. The denominator would be the number of HCP eligible to work in the LTCH for at least one day during the reporting period, excluding persons with contraindications to COVID–19 vaccination described by the CDC.\textsuperscript{1387}

The numerator would be the cumulative number of HCP eligible to work in the LTCH for at least one day during the reporting period and who received a complete vaccination course against SARS-CoV–2. A complete vaccination course may require one or more doses depending on the specific vaccine used. The finalized measure specifications can be found on the CDC website here: \url{https://www.cdc.gov/nhsn/nqf/index.html}.

We propose that LTCHs would submit data for the measure through the CDC/NHSN data collection and submission framework.\textsuperscript{1388} This framework is currently used for reporting the CAUTI (NQF #0318) and Influenza Vaccination Coverage among Healthcare Personnel (NQF #0431) measures. LTCHs would use the COVID–19 vaccination data reporting module in the NHSN Healthcare Personnel Safety (HPS) Component to report the number of HCP eligible who have worked at the facility that week (denominator) and the number of those HCP who have received a completed COVID–19 vaccination course (numerator). LTCHs would submit COVID–19 vaccination data for at least one week each month. If LTCHs submit more than one week of data in a month, the most recent week’s data would be used for measure calculation purposes. Each quarter, the CDC would calculate a summary measure of COVID–19 vaccination coverage from the three monthly modules reported for the quarter. This quarterly rate would be publicly reported on the Care Compare website. Subsequent to the first refresh, one additional quarter of data would be added to the measure calculation during each advancing refresh, until the point four full quarters of data is reached. Therefore, the measure would be reported using four rolling quarters of data on Care Compare.

For purposes of submitting data to CMS for the FY 2023 LTCH QRP, LTCHs would be required to submit data for the period October 1, 2021 through December 31, 2021. Following the initial data submission quarter for the FY 2023 LTCH QRP, subsequent compliance for the LTCH QRP would be based on a full calendar year of data submission. For more information on the measure’s proposed public reporting period, we refer readers to section E.9.d. of this proposed rule.

We invite public comment on our proposal to add a new measure, COVID–19 Vaccination Coverage among Healthcare Personnel, to the LTCH QRP beginning with the FY 2023 LTCH QRP.
b. Proposed Update to the Transfer of Health (TOH) Information to the Patient—Post-Acute Care (PAC) Measure Beginning With the FY 2023 LTCH QRP

We are proposing to update the Transfer of Health Information to the Patient—Post-Acute Care (PAC) measure denominator to exclude patients discharged home under the care of an organized home health service or hospice. This measure assesses for and reports on the timely transfer of health information, specifically transfer of a medication list. We adopted this measure in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42525 through 42535) beginning with the FY 2022 LTCH QRP. It is a process-based measure that evaluates the transfer of information when a patient is discharged from his or her current PAC setting to a private home/apartment, board and care home, assisted living, group home, transitional living, or home under the care of an organized home health service organization or hospice.

This measure, adopted under section 1899B(c)(1)(E) of the Act, was developed to be a standardized measure for the IRF QRP, LTCH QRP, SNF QRP, and Home Health (HH) QRP. The measure is calculated by one standardized data element that asks, “At the time of discharge, did the facility provide the patient’s current reconciled medication list to the patient, family, and/or caregiver?” The discharge location is captured by items on the Long-Term Care Hospital (LTCH) Continuity Assessment Record and Evaluation (CARE) Data Set (LCDS).

Specifically, this rule proposes to update the measure denominator. Currently, the measure denominators for both the TOH-Patient measure and the TOH-Provider measure assess the number of patients discharged home under the care of an organized home health service organization or hospice. In order to align the measure with the SNF QRP, IRF QRP, and HH QRP, and avoid counting the patient in both TOH measures in the LTCH QRP, we are proposing to remove this location from the definition of the denominator for the TOH-Patient measure. Therefore, we are proposing to update the denominator for the TOH-Patient measure to only discharges to a private home/apartment, board and care home, assisted living, group home, or transitional living. For additional technical information regarding the TOH-Patient measure, we refer readers to the document titled “Final Specifications for LTCH QRP Quality Measures and Standardized Patient Assessment Data Elements (SPADEs)” available at https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/LTCH-Quality-Reporting/Downloads/Final-Specifications-for-LTCH-QRP-Quality-Measures-and-SPADEs.pdf.

We invite public comment on our proposal to update the denominator of the Transfer of Health (TOH) Information to the Patient—Post-Acute Care (PAC) measure beginning with the FY 2023 LTCH QRP.

5. LTCH QRP Quality Measures Under Consideration for Future Years: Request for Information

We are seeking input on the importance, relevance, appropriateness, and applicability of each of the measures and concepts under consideration listed in Table IX.E.-02 for future years in the LTCH QRP.

Table IX.E.-02: Future Measures and Measure Concepts Under Consideration for the LTCH QRP

<table>
<thead>
<tr>
<th>Assessment-Based Quality Measures and Measure Concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frailty</td>
</tr>
<tr>
<td>Opioid use and frequency</td>
</tr>
<tr>
<td>Patient reported outcomes</td>
</tr>
<tr>
<td>Shared decision making process</td>
</tr>
<tr>
<td>Appropriate pain assessment and pain management processes</td>
</tr>
<tr>
<td>Malnutrition</td>
</tr>
<tr>
<td>Health equity</td>
</tr>
</tbody>
</table>

While we will not be responding to specific comments submitted in response to this Request for Information in the FY 2022 IPPS/LTCH PPS final rule, we intend to use this input to inform our future measure development efforts.


a. Background

The LTCH QRP is authorized by section 1886(m)(5) of the Act and furthers our mission to improve the quality of health care for beneficiaries through measurement, transparency, and public reporting of data. The LTCH QRP and CMS’s other quality programs are foundational for contributing to improvements in health care, enhancing patient outcomes, and informing consumer choice. In October 2017, we launched the Meaningful Measures Framework. This framework captures our vision to address health care quality priorities and gaps, including
emphasizing digital quality measurement (dQM), reducing measurement burden, and promoting patient perspectives, while also focusing on modernization and innovation. The scope of the Meaningful Measures Framework has evolved to accommodate the changes in the health care environment, initially focusing on measure and burden reduction to include the promotion of innovation and modernization of all aspects of quality.1390 There is a need to streamline our approach to data collection, calculation, and reporting to fully leverage clinical and patient-centered information for measurement, improvement, and learning.

In alignment with Meaningful Measures 2.0, we are seeking feedback on our future plans to define digital quality measures (dQMs) for the LTCH QRP. We are also seeking feedback on the potential use of Fast Healthcare Interoperability Resources (FHIR) for dQMs within the LTCH QRP aligning where possible with other quality programs. FHIR is a free and open source standards framework (in both commercial and government settings) created by Health Level Seven International (HL7®) establishes a common language and process for all health information technology.

b. Definition of Digital Quality Measures

We are considering proposing to adopt a standardized definition of Digital Quality Measures (dQMs) in alignment across quality programs, including the LTCH QRP. We are considering in the future to propose the adoption within the LTCH QRP the following definition: Digital Quality Measures (dQMs) are quality measures that use one or more sources of health information that are captured and can be transmitted electronically via interoperable systems.1390 A dQM includes a calculation that processes digital data to produce a measure score or measure scores. Data sources for dQMs may include administrative systems, electronically submitted clinical assessment data, case management systems, EHRs, instruments (for example, medical devices and wearable devices), patient portals or applications (for example, for collection of patient-generated health data), health information exchanges (HIEs) or registries, and other sources. As an example, the quality measures calculated from patient assessment data submitted electronically to CMS would be considered digital quality measures.

c. Use of FHIR for Future dQMs in the LTCH QRP

One of the first areas CMS has identified relative to improving our digital strategy is through the use of Fast Healthcare Interoperability Resources (FHIR)-based standards to exchange clinical information through application programming interfaces (APIs), aligning with other programs where possible, to allow clinicians to digitally submit quality information one time that can then be used in many ways. We believe that in the future proposing such a standard within the LTCH QRP could potentially enable collaboration and information sharing, which is essential for delivering high-quality care and better outcomes at a lower cost.

We are currently evaluating the use of FHIR based APIs to access assessment data collected and maintained through the Quality Improvement and Evaluation System (QIES) and internet QIES (iQIES) health information systems and are working with healthcare standards organizations to assure that their evolving standards fully support our assessment instrument content. Further, as more LTCHs are adopting EHRs, we are evaluating using the FHIR interfaces for accessing patient data (including standard assessments) directly from LTCH EHRs. Accessing data in this manner could also enable the exchange of data for purposes beyond data reporting to CMS, such as care coordination further increasing the value of EHR investments across the healthcare continuum. Once providers map their EHR data to a FHIR API in standard FHIR formats it could be possible to send and receive the data needed for measures and other uses from their EHRs through FHIR APIs.

d. Future Alignment of Measures Across Reporting Programs, Federal and State Agencies, and the Private Sector

We are committed to using policy levers and working with stakeholders to achieve interoperable data exchange and to transition to full digital quality measurement in our quality programs. We are considering the future potential development and staged implementation of a cohesive portfolio of dQMs across our quality programs (including the LTCH QRP), agencies, and private payers. This cohesive portfolio would require, where possible, alignment of: (1) Measure concepts and specifications; (2) Narrative statements, measure logic, and value sets; and (2) the individual data elements used to build these measure specifications and calculate the measures. Further, the required data elements would be limited to standardized, interoperable elements to the fullest extent possible; hence, part of the alignment strategy will be the consideration and advancement of data standards and implementation guides for key data elements. We would coordinate closely with quality measure developers, Federal and State agencies, and private payers to develop and to maintain a cohesive dQM portfolio that meets our programmatic requirements and that fully aligns across Federal and State agencies and payers to the extent possible.

We intend this coordination to be ongoing and allow for continuous refinement to ensure quality measures remain aligned with evolving healthcare practices and priorities (for example, patient reported outcomes (PROs), disparities, care coordination), and track with the transformation of data collection. This includes conformance with standards and health IT module updates, future adoption of technologies incorporated within the ONC Health IT Certification Program and may also include standards adopted by ONC (for example, to enable standards-based APIs). The coordination would build on the principles outlined in HHS’ National Health Quality Roadmap.1391

It would focus on the quality domains of safety, timeliness, efficiency, effectiveness, equity, and patient-centeredness. It would leverage several existing Federal and public-private efforts including our Meaningful Measures 2.0 Framework; the Federal Electronic Health Record Modernization (DoD/VA); the Core Quality Measure Collaborative, which convenes stakeholders from America’s Health Insurance Plans (AHIP), CMS, NQF, provider organizations, private payers, and consumers and develops consensus on quality measures for provider specialties; and the NQF-convened Measure Applications Partnership (MAP), which recommends measures for use in public payment and reporting programs. We would coordinate with HL7’s ongoing work to advance FHIR resources in critical areas to support patient care and measurement such as social determinants of health. Through this coordination, we would identify which existing measures could be used or evolved to be used as dQMs, in

---


1391 Definition taken from the CMS Quality Conference 2021.
recognition of current healthcare practice and priorities.

This multi-stakeholder, joint Federal, State, and industry effort, made possible and enabled by the pending advances towards true interoperability, would yield a significantly improved quality measurement enterprise. The success of the dQM portfolio would be enhanced by the degree to which the measures achieve our programmatic requirements as well as the requirements of other agencies and payers.

e. Solicitation of Comments

We seek input on the following steps that would enable transformation of CMS’ quality measurement enterprise to be fully digital:

i. What EHR/IT systems do you use and do you participate in a health information exchange (HIE)?

ii. How do you currently share information with other providers?

iii. In what ways could we incentivize or reward innovative uses of health information technology (IT) that could reduce burden for post-acute care settings, including but not limited to LTCHs?

iv. What additional resources or tools would post-acute care settings, including but not limited to LTCHs, and health IT vendors find helpful to support the testing, implementation, collection, and reporting of all measures using FHIR standards via secure APIs to reinforce the sharing of patient health information between care settings?

v. Would vendors, including those that service post-acute care settings, such as LTCHs, be interested in or willing to participate in pilots or models of alternative approaches to quality measurement that would align standards for quality measure data collection across care settings to improve care coordination, such as sharing patient data via secure FHIR API as the basis for calculating and reporting digital measures?

We plan to continue working with other agencies and stakeholders to coordinate and to inform our transformation to dQMs leveraging health IT standards. While we will not be responding to specific comments submitted in response to this RFI in the FY 2022 IPPS/LTCH PPS final rule, we will actively consider all input as we develop future regulatory proposals or future subregulatory policy guidance. Any updates to specific program requirements related to quality measurement and reporting provisions would be addressed through separate and future notice-and-comment rulemaking, as necessary.

7. Closing the Health Equity Gap in Post-Acute Care Quality Reporting Programs—Request for Information (RFI)

a. Background

Significant and persistent inequities in health outcomes exist in the United States. In recognition of persistent health disparities and the importance of closing the health equity gap, we request information on revising several CMS programs to make reporting of health disparities based on social risk factors and race and ethnicity more comprehensive and actionable for providers and patients. Belonging to a racial or ethnic minority group; living with a disability; being a member of the lesbian, gay, bisexual, transgender, and queer (LGBTQ+) community; or being near or below the poverty level, is often associated with worse health outcomes.

Such disparities in health outcomes are the result of a number of factors, but importantly for CMS programs, although not the sole determinant, poor access and provision of lower quality health care contribute to health disparities. For instance, numerous studies have shown that among Medicare beneficiaries, racial and ethnic minority individuals often receive lower quality of care, report lower experiences of care, and experience more frequent hospital readmissions and operative complications.

b. What health IT systems do you use and do you participate in a health information exchange (HIE)?

c. How do you currently share information with other providers?

d. In what ways could we incentivize or reward innovative uses of health information technology (IT) that could reduce burden for post-acute care settings, including but not limited to LTCHs?

e. What additional resources or tools would post-acute care settings, including but not limited to LTCHs, and health IT vendors find helpful to support the testing, implementation, collection, and reporting of all measures using FHIR standards via secure APIs to reinforce sharing of patient health information between care settings?

f. Would vendors, including those that service post-acute care settings, such as LTCHs, be interested in or willing to participate in pilots or models of alternative approaches to quality measurement that would align standards for quality measure data collection across care settings to improve care coordination, such as sharing patient data via secure FHIR API as the basis for calculating and reporting digital measures?

We plan to continue working with other agencies and stakeholders to coordinate and to inform our transformation to dQMs leveraging health IT standards. While we will not be responding to specific comments submitted in response to this RFI in the FY 2022 IPPS/LTCH PPS final rule, we will actively consider all input as we develop future regulatory proposals or future subregulatory policy guidance. Any updates to specific program requirements related to quality measurement and reporting provisions would be addressed through separate and future notice-and-comment rulemaking, as necessary.

Readmission rates for common conditions in the Hospital Readmissions Reduction Program are higher for Black Medicare beneficiaries and higher for Hispanic Medicare beneficiaries with Congestive Heart Failure and Acute Myocardial Infarction. Studies have also shown that African Americans are significantly more likely than white Americans to die prematurely from heart disease and stroke. The COVID–19 pandemic has further illustrated many of these longstanding health inequities with higher rates of infection, hospitalization, and mortality among Black, Latino, and Indigenous and Native American persons relative to white persons.

As noted by the Centers for Disease Control “long-standing systemic health and social inequities have put many people from racial and ethnic minority groups at increased risk of getting sick and dying.


One important strategy for addressing these important inequities is by improving data collection to allow for better measurement and reporting on equity across post-acute care programs and policies.

We are also committed to achieving equity in health care outcomes for our beneficiaries by supporting providers in quality improvement activities to reduce health inequities, enabling them to make more informed decisions, and promoting provider accountability for health care disparities. For the purposes of this rule, we are using a definition of “equity” established in Executive Order 13985 as “the consistent and systematic fair, just, and impartial treatment of all individuals, including individuals who belong to underserved communities that have been denied such treatment, such as Black, Latino, and Indigenous and Native American persons, Asian Americans and Pacific Islanders and other persons of color; members of religious minorities; lesbian, gay, bisexual, transgender, and queer (LGBTQ+) persons; persons with disabilities; persons who live in rural areas; and persons otherwise adversely affected by persistent poverty or inequality.” We note that this definition was recently established by the current administration, and provides a useful, common definition for equity across different areas of government, although numerous other definitions of equity exist.

Our ongoing commitment to closing the equity gap in CMS quality programs, including the PAC QRPs, is demonstrated by a portfolio of programs aimed at making information on the quality of health care providers and services, including disparities, more transparent to consumers and providers. The CMS Equity Plan for Improving Quality in Medicare outlines a path to equity which aims to support Quality Improvement Networks and Quality Improvement Organizations (QIN–QIOs); Federal, State, local, and tribal organizations; providers; researchers; policymakers; beneficiaries and their families; and other stakeholders in activities to achieve health equity. The CMS Equity plan includes three core elements: (1) Increasing understanding and awareness of disparities; (2) developing and disseminating solutions to achieve health equity; and (3) implementing sustainable actions to achieve health equity. The CMS Quality Strategy and Meaningful Measures Framework include elimination of racial and ethnic disparities as a central principle. Our ongoing commitment to closing the health equity gap in the LTCH QRP is demonstrated by the adoption of standardized patient assessment data elements (SPADEs) which include several social determinants of health (SDOH) that were finalized in the FY 2020 IPPS/LTCH PPS final rule for the LTCH QRP (84 FR 42577 through 42588).

We continue to work with public and private partners to better leverage data on social determinants of health to improve our understanding of how these factors can be better measured in order to close the health equity gap. Among other things, we have developed an Inventory of Resources for Standardized Demographic and Language Data Collection and supported collection of specialized International Classification of Disease, 10th Edition, Clinical Modification (ICD–10–CM) codes for describing the socioeconomic, cultural, and environmental factors and social determinants of health. We continue to work to improve our understanding of this important issue and to identify policy solutions that achieve the goals of attaining health equity for all patients.

b. Solicitation of Public Comment

Under the authority of the IMPACT Act and section 1886(m)(5) of the Act, we are seeking comment on the possibility of revising measure development, and the collection of other SPADEs that address gaps in health equity in the LTCH QRP. Any potential data collection or measure reporting related to health equity within a CMS program, including the LTCH QRP, that might result from public comments received in response to this solicitation would be addressed through a separate notice-and-comment rulemaking in the future.

Specifically, we are inviting public comment on the following:

- Recommendations for quality measures, or measurement domains that address health equity, for use in the LTCH QRP.
- As finalized in the FY 2020 IPPS/LTCH PPS Final Rule (84 FR 42577 through 42588), LTCHs must report certain SPADEs on SDOH, including race, ethnicity, preferred language, interpreter services, health literacy, transportation and social isolation. CMS is seeking guidance on any additional SPADEs that could be used to assess health equity in the care of LTCH patients, for use in the LTCH QRP.
- Recommendations for how CMS can promote health equity in outcomes among LTCH patients. For example, we are interested in feedback regarding whether including facility-level quality measure results stratified by social risk factors and social determinants of health (for example, dual eligibility for Medicare and Medicaid, race) in confidential feedback reports could allow facilities to identify gaps in the quality of care they provide. (For example, methods similar or analogous to the CMS Disparity Methods which provide hospital-level confidential results stratified by dual eligibility for condition-specific readmission measures, which are currently included in the Hospital Readmission Reduction Program (see 84 FR 42496 through 42500).
- Methods that commenters or their organizations use in employing data to reduce disparities and improve patient outcomes, including the source(s) of data used, as appropriate.
- Given the importance of structured data and health IT standards for the capture, use, and exchange of health information, including data on race, ethnicity, and other social determinants of health, to support care delivery and decision making.

In response to the COVID–19 PHE, CMS released an Interim Final Rule (85 FR 27595 through 27597) which delayed the compliance date for the collection and reporting of the SDOH for at least one full fiscal year after the end of the PHE.

While we will not be responding to specific comments submitted in response to this RFI in the FY 2022 IPPS/LTCH PPS final rule, we intend to use this input to inform future policy development. We look forward to receiving feedback on these topics, and note for readers that responses to the RFI should focus on how they could be applied to the quality reporting program requirements. Please note that any responses provided will not impact payment decisions.

8. Form, Manner, and Timing of Data Submission Under the LTCH QRP

a. Background

We refer readers to the regulatory text at 42 CFR 412.560(b) for information regarding the current policies for reporting LTCH QRP data.

b. Proposed Schedule for Data Submission of the COVID–19 Vaccination Coverage Among Healthcare Personnel Measure Beginning With the FY 2023 LTCH QRP

As discussed in section E.4.a. of this proposed rule, we are proposing to adopt the COVID–19 Vaccination Coverage among HCP measure beginning with the FY 2023 LTCH QRP. Given the time-sensitive nature of this measure in light of the PHE, we propose an initial data submission period from October 1, 2021 through December 31, 2021. Starting in CY 2022, LTCHs would be required to submit data for the entire calendar year beginning with the FY 2024 LTCH QRP.

LTCHs would submit data for the measure through the CDC/NHSN web-based surveillance system. LTCHs currently utilize the NHSN for purposes of meeting other LTCH QRP requirements.\textsuperscript{1423} LTCHs would use the COVID–19 vaccination data collection module in the NHSN Healthcare Personnel Safety (HPS) Component to report the cumulative number of HCP eligible to work in the LTCH for at least 1 day during the reporting period, excluding persons with contraindications to COVID–19 vaccination (denominator) and the cumulative number of HCP eligible to work in the LTCH for at least 1 day during the reporting period and who have received a complete vaccination course against COVID–19 (numerator). LTCHs would submit COVID–19 vaccination data through the NHSN for at least one week each month and the CDC would report to CMS quarterly. We invite public comment on this proposal.

9. Proposed Policies Regarding Public Display of Measure Data for the LTCH QRP

a. Background

Section 1886(m)(5)(E) of the Act requires the Secretary to establish procedures for making the LTCH QRP data available to the public, including the performance of individual LTCHs, after ensuring that LTCHs have the opportunity to review their data prior to public display. LTCH QRP measure data are currently displayed on the Long-term care hospitals website within Care Compare and the Provider Data Catalog, which are CMS websites. Both Care Compare and the Provider Data Catalog replaced LTCH Compare and Data.Medicare.gov, which were retired in December 2020. For a more detailed discussion about our policies regarding public display of LTCH QRP measure data and procedures for the opportunity to review and correct data and information, we refer readers to the FY 2017 IPPS/LTCH PPS final rule (81 FR 57231 through 57236).

b. Proposal To Publicly Report the Compliance With Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay Measure Beginning With the FY 2023 LTCH QRP

We propose public reporting for the Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay Measure Beginning With the FY 2023 LTCH QRP.

We propose publicly reporting the Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay measure beginning with the March 2022 Care Compare refresh or as soon as technically feasible using four rolling quarters of discharge data collected in Q3 2020 through Q2 2021 (July 1, 2020 through June 30, 2021) for the inaugural display of this measure. We propose publicly reporting the Compliance with SBT by Day 2 of the LTCH Stay measure for data collected from July 1, 2018 through December 31, 2019 on CMS’ Provider Data Catalog (PDC) web page. We adopted the Compliance with SBT by Day 2 of the LTCH Stay measure in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38445 through 38446). Data collection for this assessment-based measure began with patients admitted and discharged on or after July 1, 2018. To ensure the statistical reliability of the data, we propose not to publicly report an LTCH’s performance on the measure if the LTCH had fewer than 20 eligible cases\textsuperscript{1424} during each performance period. LTCHs that have fewer than 20 eligible cases would be distinguished with a footnote that states: “The number of cases/patient stays is too small to publicly report.”

LTCHs were required to collect and submit data for the Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay measure beginning on July 1, 2018 (Q3 2018), six calendar year quarters prior to the data proposal for the inaugural display of the measure on Care Compare. The first quarter of data collected and submitted by LTCHs (that is, Q3 2018) will be nearly 3.5 years old at that time. Therefore, CMS believes it is in the best interest of providers and the public to use the most recent available four quarters of data (that is July 1, 2020 through June 30, 2021) for the inaugural public display of the Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay measure on Care Compare and to post provider performance on the Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay measure using the older data (that is, July 1, 2018 through December 31, 2019) on CMS’ Provider Data Catalog (PDC) web page (https://data.cms.gov/provider-data/).

We invite public comment on the proposal to publicly display the measure, Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay measure on Care Compare and PDC.

c. Proposal To Publicly Report the Ventilator Liberation Rate for the PAC LTCH QRP Measure Beginning With the FY 2023 LTCH QRP

We propose public reporting for the Ventilator Liberation Rate for the PAC LTCH QRP measure, beginning with the March 2022 Care Compare refresh or as soon as technically feasible using four rolling quarters of discharge data collected in Q3 2020 through Q2 2021 (July 1, 2020 through June 30, 2021) for the inaugural display of this measure. We propose publicly reporting the Ventilator Liberation Rate for the PAC LTCH QRP measure for data collected from July 1, 2018 through December 31, 2019 on CMS’ Provider Data Catalog (PDC) web page. We adopted the Ventilator Liberation Rate for the PAC LTCH QRP measure in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38445 through 38446). Data collection for this assessment-based measure began with patients admitted and discharged on or after July 1, 2018. To ensure the statistical reliability of the data, we propose not to publicly report an LTCH’s performance on the measure if the LTCH had fewer than 20 eligible cases\textsuperscript{1424} during each performance period. LTCHs that have fewer than 20 eligible cases would be distinguished with a footnote that states: “The number of cases/patient stays is too small to publicly report.”


\textsuperscript{1424} We define an “eligible case” as a case that meets all of the criteria under the measure’s requirements.

\textsuperscript{1425} We define an “eligible case” as a case that meets all of the criteria under the measure’s requirements.
measure began with patients admitted and discharged on or after July 1, 2018. To ensure the statistical reliability of the data, we propose not to publicly report an LTCH’s performance on the measure if the LTCH had fewer than 20 eligible cases during each performance period. LTCHs that have fewer than 20 eligible cases would be distinguished with a footnote that states: “The number of cases/patient stays is too small to publicly report.”

LTCHs were required to collect and submit data for the Ventilator Liberation Rate for the PAC LTCH QRP measure beginning on July 1, 2018 (Q3 2018), six calendar year quarters prior to the data proposed for the inaugural display of the measure on Care Compare. The first quarter of data collected and submitted by LTCHs (that is, Q3 2018) will be nearly 3.5 years old at that time. Therefore, CMS believes it is in the best interest of providers and the public to use the most recent available four quarters of data (that is July 1, 2020 through June 30, 2021) for the inaugural public display of the Ventilator Liberation Rate for the PAC LTCH QRP measure on Care Compare and to post provider performance on the Ventilator Liberation Rate for the PAC LTCH QRP measure using the older data (that is, July 1, 2018 through December 31, 2019) on CMS’ Provider Data Catalog (PDC) web page (https://data.cms.gov/provider-data/).

We invite public comment on this proposal for public display of the measure, COVID–19 Vaccination Coverage among HCP on Care Compare.

d. Proposal To Publicly Report the COVID–19 Vaccination Coverage Among Healthcare Personnel (HCP) Measure Beginning With the FY 2023 LTCH QRP

We propose to publicly report the COVID–19 Vaccination Coverage among Healthcare Personnel (HCP) measure beginning with the September 2022 Care Compare refresh or as soon as technically feasible using data collected for Quarter 4 2021 (October 1, 2021 through December 31, 2021). If finalized as proposed, a LTCH’s HCP COVID–19 vaccination coverage rate would be displayed based on one quarter of data. Provider preview reports would be distributed in June 2022. Subsequent to the September 2022 Care Compare refresh, one additional quarter of data would be added to the measure calculation during each advancing refresh, until the point four quarters of data is reached. Thereafter, the measure would be publicly reported using four rolling quarters of data.

We invite public comment on this proposal for the public display of the measure, COVID–19 Vaccination Coverage among HCP on Care Compare.

e. Proposals for Public Reporting of Quality Measures in the LTCH QRP With Fewer Quarters Due to COVID–19 Public Health Emergency (PHE) Exemption

(1) COVID–19 Public Health Emergency Temporary Exemptions

Under the authority of section 319 of the Public Health Service Act, the Secretary of Health and Human Services declared a public health emergency (PHE) effective as of January 27, 2020. On March 13, 2020, subsequent to a presidential declaration of national emergency under the Stafford Act, the Secretary invoked Section 1135(b) of the Act (42 U.S.C. 1320b–5) to waive or modify the requirements of titles XVIII, XIX, and XXI of the Act and regulations related to the PHE for COVID–19 effective as of March 1, 2020.1425 On March 27, 2020, we sent a guidance memorandum under the subject title, “Exceptions and Extensions for Quality Reporting Requirements for Acute Care Hospitals, PPS-Exempt Cancer Hospitals, Inpatient Psychiatric Facilities, Skilled Nursing Facilities, Home Health Agencies, Hospices, Inpatient Rehabilitation Facilities, Long-Term Care Hospitals, Ambulatory Surgical Centers, Renal Dialysis Facilities, and MIPS Eligible Clinicians Affected by COVID–19” to the Medicare Learning Network (MLN) Connects Newsletter and Other Program-Specific Listserv Recipients, hereafter referred to as the March 27, 2020 CMS Guidance Memo. In that memo we granted an exception to the LTCH–QRP reporting requirements from Q4 2019 (October 1, 2019–December 31, 2019) Q1 2020 (January 1, 2020–March 31, 2020) and Q2 2020 (April 1, 2020–June 30, 2020). We also stated that we would not publicly report any LTCH QRP data that might be greatly impacted by the exceptions from Q1 and Q2 of 2020. This exception impacted the schedule for public reporting that would have included those two quarters of data.

LTCH QRP measures are publicly reported on Care Compare. Care Compare uses four quarters of data for LCDS assessment-based measures, with the exception of the Functional Outcome Measure: Change in Mobility Among Long-Term Care Hospital Patients requiring Ventilator Support (NQF #2632) which uses eight quarters of data. Care Compare uses eight quarters of data for claims based measures. Table IX.E–03 displays the original schedule for public reporting of LTCH QRP measures.1427

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>LTCH QRP Quarters in Original Schedule for Care Compare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual December 2020 (on Care Compare)</td>
<td>LCDS: Q1 2019 – Q4 2019 (4 quarters)*</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q1 2018 – Q4 2019 (8 quarters)*</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2017 – Q3 2019 (8 quarters)</td>
</tr>
<tr>
<td>Original December 2020</td>
<td>LCDS: Q2 2019 – Q1 2020 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q2 2018 – Q1 2020 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2017 – Q3 2019 (8 quarters)</td>
</tr>
<tr>
<td>March 2021</td>
<td>LCDS: Q3 2019 – Q2 2020 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q3 2018 – Q2 2020 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2017 – Q3 2019 (8 quarters)</td>
</tr>
<tr>
<td>June 2021</td>
<td>LCDS: Q4 2019 – Q3 2020 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q4 2018 – Q3 2020 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2017 – Q3 2019 (8 quarters)</td>
</tr>
<tr>
<td>September 2021</td>
<td>LCDS: Q1 2020 – Q4 2020 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q1 2019 – Q4 2020 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2018 – Q3 2020 (8 quarters)</td>
</tr>
<tr>
<td>December 2021</td>
<td>LCDS: Q2 2020 – Q1 2021 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q2 2019 – Q1 2021 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2018 – Q3 2020 (8 quarters)</td>
</tr>
<tr>
<td>March 2022</td>
<td>LCDS: Q3 2020 – Q2 2021 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q3 2019 – Q2 2021 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2018 – Q3 2020 (8 quarters)</td>
</tr>
<tr>
<td>June 2022</td>
<td>LCDS: Q4 2020 – Q3 2021 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q4 2019 – Q3 2021 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2018 – Q3 2020 (8 quarters)</td>
</tr>
<tr>
<td>September 2022</td>
<td>LCDS: Q1 2021 – Q4 2021 (4 quarters)</td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q1 2020 – Q4 2021 (8 quarters)</td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2019 – Q3 2021 (8 quarters)</td>
</tr>
</tbody>
</table>
During 2020, we conducted testing to inform decisions about publicly reporting data for those refreshes which include partially and/or fully exempt data (discussed below). The testing helped us develop a plan for posting data that are as up-to-date as possible and that also meet acceptable standards for public reporting. We believe that the plan allows us to provide consumers with helpful information on the quality of LTCH care, while also making the necessary adjustments to accommodate the exemption provided LTCHs. The following sections provide the results of our testing, and explains how we used the results to develop plans for accommodating exempt and partially-exempt data in public reporting.

(2) Exempted Quarters

In the March 27, 2020 Medicare Learning Network (MLN) Newsletter on Exceptions and Extensions for Quality Reporting Program (QRP) Requirements, we stated that we would not report any PAC quality data that might be greatly impacted by the exemptions granted for Quarter 1 and Quarter 2 of 2020. Given the timing of the PHE onset, we determined that we would not use LCDS assessments or LTCH claims from Quarter 1 and Quarter 2 of 2020 for public reporting, but that we would assess the COVID–19 PHE impact on data from Quarter 4 2019. Before proceeding with the December 2020 refresh, we conducted testing to ensure that, despite the voluntary nature of reporting for that quarter, public reporting would still meet our public reporting standards. We found the level of reporting, measured in the number of eligible stays and providers, and the reported outcomes, to be in line with levels and trends observed in FY 2018 and FY 2019. We note that Quarter 4 2019 ended before the onset of the COVID–19 pandemic in the United States. Thus, we proceeded with including these data in LTCH QRP measure calculations for the December 2020 refresh.

(3) Update on Data Freeze and Proposal for December 2021 Public Reporting Methodology for LTCH Claims-Based and LCDS Assessment-Based Measures

In addition to the March 2021 refresh, there are several other forthcoming refreshes for which the original public reporting schedules included exempted quarters of LTCH QRP data. The impacted refreshes for LCDS assessment and claims based measures are outlined in Table FF3. We determined that freezing the data displayed on the website with the December 2020 refresh values—that is, hold the data constant after the December 2020 refresh data on the website without subsequent update—would be the most straightforward, efficient, and equitable approach for LTCHs. Thus, we decided that, for as many refreshes as necessary, we would hold data constant on the website with the December 2020 data, and communicate this decision to the public.

Because December 2020 refresh data will become increasingly out-of-date and thus less useful for consumers, we analyzed whether it would be possible to use fewer quarters of data for one or more refreshes and thus reduce the number of refreshes that continue to display December 2020 data. Using fewer quarters of more up-to-date data requires that (1) a sufficient percentage of LTCHs would still likely have enough assessment data to report quality measures (reportability); and (2) fewer quarters would likely produce similar measure scores for providers, with similar reliability, and thus not unfairly represent the quality of care LTCHs provide during the period reported in a given refresh (reliability).

To assess these criteria, we conducted reportability and reliability analysis using 3 quarters of data in a refresh, instead of the standard 4 quarters of data for reporting assessment-based measures and using 6 quarters instead of 8 for the Functional Outcome Measure: Change in Mobility Among Long-Term Care Hospital Patients requiring Ventilator Support (NQF #2632) measure; and using 6 quarters instead of 8 for claims-based measures. Specifically, we used historical data to calculate LCDS assessment based and LTCH claims based measures under two scenarios:

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>LTCH QRP Quarters in Original Schedule for Care</th>
<th>Compare</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2022</td>
<td>LCDS: Q2 2021 – Q1 2022 (4 quarters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q2 2020 – Q1 2022 (8 quarters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2019 – Q3 2021 (8 quarters)</td>
<td></td>
</tr>
<tr>
<td>March 2023</td>
<td>LCDS: Q3 2021 – Q2 2022 (4 quarters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q3 2020 – Q2 2022 (8 quarters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2019 – Q3 2021 (8 quarters)</td>
<td></td>
</tr>
<tr>
<td>June 2023</td>
<td>LCDS: Q4 2021 – Q3 2022 (4 quarters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LCDS Mobility Measure: Q4 2020 – Q3 2022 (8 quarters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Claims: Q4 2019 – Q3 2021 (8 quarters)</td>
<td></td>
</tr>
</tbody>
</table>

*The September 2020 refresh was postponed to December 2020 for technical reasons. The period of performance listed here reflects the data that was originally scheduled to be used to calculate provider performance for the December 2020 refresh.*
1. Standard Public Reporting (SPR) Base Scenario: We used four quarters of CY 2019 data as a proxy alternative for the exempted quarters in CY 2020 in order to compare results. For assessment-based measures, the quarters used in this scenario are Q1 through Q4 2019. For the Functional Outcome Measure: Change in Mobility Among Long-Term Care Hospital Patients requiring Ventilator Support (NQF #2632) measure, the quarters used in this scenario are Q1 2018 through Q4 2019. For claims-based measures, the quarters used in this scenario are Q1 2018 through Q4 2019.

2. COVID–19 Affected Reporting (CAR) Scenario: We calculated LTCH QRP measures using 3 quarters (Q2 2019 through Q4 2019) of LTCH QRP data for assessment-based measures, 6 quarters (Q1 2018 through Q4 2018 and Q3 2019 through Q4 2019) for the Functional Outcome Measure: Change in Mobility Among Long-Term Care Hospital Patients requiring Ventilator Support (NQF #2632) measure, and 6 quarters (Q1 2018 through Q4 2018 and Q3 2019 through Q4 2019) for claims-based measures. The CAR scenario uses the most recently available data to simulate the public health emergency reality where quarters 1 and 2 of a calendar year must be excluded from calculation. Quarterly trends in LCDS assessment-based and LTCH claims-based measures indicate that these measures do not exhibit substantial seasonal variation.

To assess performance in these scenarios, we calculated the reportability as the percent of LTCHs meeting the case minimum for public reporting (the public reporting threshold). To test the reliability of restricting the LTCHs included in the SPR Base Scenario to those included in the CAR Scenario, we performed three tests on the set of LTCHs included in both scenarios. First, we evaluated measure correlation using the Pearson and Spearman correlation coefficients, which assess the alignment of LTCHs’ provider scores. Second, for each scenario, we conducted a split-half reliability analysis and estimated intraclass correlation (ICC) scores, where higher scores imply better internal reliability. Modest differences in ICC scores between scenarios would suggest that using fewer quarters of data does not impact the internal reliability of the results. Third, we estimated reliability scores where a higher value indicates that measure scores are relatively consistent for patients admitted to the same LTCH and variation in the measure reflects true differences across providers. To calculate the reliability results, we restricted the LTCHs included in the SPR scenario to those included in the CAR scenario. Our testing indicated that the expected impact of using fewer quarters of data on reportability and reliability of LCDS assessment-based and claims-based measures is acceptable.

We are proposing to use the CAR scenario as the approach for the following affected refreshes: For LCDS assessment-based measures, the affected refresh is the December 2021 refresh; for claims-based measures, the affected refreshes occur from December 2021 through June 2023. For the earlier three affected refreshes (March, June, and September 2021), we decided to hold constant the Care Compare website with December 2020 data. We communicated this decision in a Public Reporting Tip Sheet, which is located at: https://www.cms.gov/files/document/LTCHqrp-covid19prtipsheet-october-2020.pdf.

Our proposal of the CAR approach for the affected refreshes would allow us to begin displaying more recent data in December 2021, rather than continue displaying December 2020 data (Q1 2019 through Q4 2019 and Q1 2018 through Q4 2019 for assessment-based measures, Q4 2017 through Q3 2019 for claims-based measures). We believe resuming public reporting starting in December 2021 with fewer quarters of data can assist consumers by providing more recent quality data as well as more actionable data for LTCH providers. Our testing results indicate we can achieve these positive impacts with acceptable changes in reportability and reliability.

Table IX.E.-04 summarizes the revised schedule (that is, frozen data) and the proposed schedule (that is, using fewer quarters in the affected refreshes) for assessment-based measures. Table IX.E.-05 summarizes the revised schedule (that is, frozen data) and the proposed schedule (that is, using fewer quarters in the affected refreshes) for claims-based measures.

We invite public comments on the proposal to use the CAR scenario to publicly report LTCH measures for the December 2021–June 2023 refreshes.
Table IX.E-04. Revised and Proposed Schedule for Refreshes Affected by COVID-19 PHE Exemptions for LCDS Assessment-based QMs

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>LCDS Assessment based Quarters in Revised/Proposed Schedule for Care Compare (number of quarters)</th>
</tr>
</thead>
</table>
| December 2020   | Q1 2019 – Q4 2019 (4)  
|                 | Q1 2018 – Q4 2019 (8)  |
| March 2021      | Q1 2019 – Q4 2019 (4)  
|                 | Q1 2018 – Q4 2019 (8)  |
| June 2021       | Q1 2019 – Q4 2019 (4)  
|                 | Q1 2018 – Q4 2019 (8)  |
| September 2021  | Q1 2019 – Q4 2019 (4)  
|                 | Q1 2018 – Q4 2019 (8)  |
| December 2021   | Q3 2020 – Q1 2021 (3)  
<p>|                 | Q2 2019 – Q4 2019, Q3 2020 – Q1 2021 (6) |
| March 2022*     | Q3 2020 – Q2 2021 (4)  |</p>
<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>LCDS Assessment based Quarters in Revised/Proposed Schedule for Care Compare (number of quarters)^</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q3 2019 – Q4 2019, Q3 2020 – Q2 2021 (6)</td>
</tr>
<tr>
<td>June 2022</td>
<td>Q4 2020 – Q3 2021 (4)</td>
</tr>
<tr>
<td></td>
<td>Q4 2019, Q3 2020 – Q3 2021 (6)</td>
</tr>
<tr>
<td>September 2022</td>
<td>Q1 2021 – Q4 2021 (4)</td>
</tr>
<tr>
<td></td>
<td>Q4 2019, Q3 2020 – Q4 2021 (7)</td>
</tr>
<tr>
<td>December 2022</td>
<td>Q2 2021 – Q1 2022 (4)</td>
</tr>
<tr>
<td></td>
<td>Q4 2019, Q3 2020 – Q1 2022 (8)</td>
</tr>
<tr>
<td>March 2023**</td>
<td>Q3 2021 – Q2 2022 (4)</td>
</tr>
<tr>
<td></td>
<td>Q3 2020 – Q2 2022 (8)</td>
</tr>
</tbody>
</table>

Note: The shaded cells represent data held constant due to PHE related to COVID-19.
^The Change in Mobility Among LTCH Patients Requiring Ventilator Support requires 8 quarters of data whereas the remaining LCDS measures require 4 quarters.
*Normal reporting resumes with 4 quarters of data for most LCDS measures.
**All LCDS measures will normalize in the March 2023 refresh.
CDC recommends using the four most recent non-contiguous non-exempted quarters of data for NHSN reporting in the LTCH QRP. This non-contiguous compilation of quarterly reporting would continue until the time when four contiguous quarters of reporting resumes (based on CDC’s review, this would occur in July 2022). Tables IX.E.-06 and 07 display the original schedules for public reporting of LTCH CDI, CAUTI and CLABSI measures and the HCP Influenza measure, respectively.

Table IX.E.-05. Revised and Proposed Schedule for Refreshes Affected by COVID-19 PHE Exemptions for LTCH Claims-based QMs

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>Claims-based Quarters in Revised/Proposed Schedule for Care Compare (number of quarters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2020</td>
<td>Q4 2017 – Q3 2019 (8)</td>
</tr>
<tr>
<td>March 2021</td>
<td>Q4 2017 – Q3 2019 (8)</td>
</tr>
<tr>
<td>June 2021</td>
<td>Q4 2017 – Q3 2019 (8)</td>
</tr>
<tr>
<td>September 2021</td>
<td>Q4 2017 – Q3 2019 (8)</td>
</tr>
<tr>
<td>December 2021</td>
<td>Q4 2018 – Q4 2019, Q3 2020 (6)</td>
</tr>
<tr>
<td>March 2022</td>
<td>Q4 2018 – Q4 2019, Q3 2020 (6)</td>
</tr>
<tr>
<td>June 2022</td>
<td>Q4 2018 – Q4 2019, Q3 2020 (6)</td>
</tr>
<tr>
<td>September 2022</td>
<td>Q4 2019, Q3 2020 – Q3 2021 (6)</td>
</tr>
<tr>
<td>December 2022</td>
<td>Q4 2019, Q3 2020 – Q3 2021 (6)</td>
</tr>
<tr>
<td>March 2023</td>
<td>Q4 2019, Q3 2020 – Q3 2021 (6)</td>
</tr>
<tr>
<td>June 2023</td>
<td>Q4 2019, Q3 2020 – Q3 2021 (6)</td>
</tr>
<tr>
<td>September 2023</td>
<td>Q4 2020 – Q3 2022 (8)* *Normal reporting resumes with 8 quarters of data</td>
</tr>
</tbody>
</table>

Note: The shaded cells represent data held constant due to PHE related to COVID-19.

(4) Update on Data Freeze and Proposal for December 2021 Public Reporting Methodology for NHSN-Based Measures.
Table IX.E.-06. LTCH QRP Quarters in Care Compare Original Schedule for Refreshes Affected by COVID-19 PHE Exemptions  CDI, CAUTI, and CLABSI NHSN Measures

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>CDI, CAUTI, and CLABSI Quarters in Original Schedule for Care Compare (number of quarters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual December 2020 (on Care Compare)</td>
<td>Q4 2018 – Q3 2019 (4)*</td>
</tr>
<tr>
<td>Original December 2020</td>
<td>Q1 2019 – Q4 2019 (4)</td>
</tr>
<tr>
<td>March 2021</td>
<td>Q2 2019 – Q1 2020 (4)</td>
</tr>
<tr>
<td>June 2021</td>
<td>Q3 2019 – Q2 2020 (4)</td>
</tr>
<tr>
<td>September 2021</td>
<td>Q4 2019 – Q3 2020 (4)</td>
</tr>
<tr>
<td>December 2021</td>
<td>Q1 2020 – Q4 2020 (4)</td>
</tr>
<tr>
<td>March 2022</td>
<td>Q2 2020 – Q1 2021 (4)</td>
</tr>
<tr>
<td>June 2022</td>
<td>Q3 2020 – Q2 2021 (4)</td>
</tr>
</tbody>
</table>

*The September 2020 refresh was postponed to December 2020 for technical reasons.
Table IX.E-07. LTCH QRP Quarters in Care Compare Original Schedule for Refreshes Affected by COVID-19 PHE Exemptions - HCP Influenza Measure

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>HCP Influenza Quarters in Original Schedule for Care Compare (number of quarters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual December 2020 (on Care Compare)</td>
<td>Q4 2017 – Q1 2018 (2)*</td>
</tr>
<tr>
<td>December 2020</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>March 2021</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>June 2021</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>September 2021</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>December 2021</td>
<td>Q4 2019 – Q1 2020 (2)</td>
</tr>
<tr>
<td>March 2022</td>
<td>Q4 2019 – Q1 2020 (2)</td>
</tr>
<tr>
<td>June 2022</td>
<td>Q4 2019 – Q1 2020 (2)</td>
</tr>
<tr>
<td>September 2022</td>
<td>Q4 2019 – Q1 2020 (2)</td>
</tr>
<tr>
<td>December 2022</td>
<td>Q4 2020 – Q1 2021 (2)</td>
</tr>
</tbody>
</table>

*The September 2020 refresh was postponed to December 2020 for technical reasons.

Table IX.E-08. Revised and Proposed Schedule for Refreshes Affected by COVID-19 PHE Exemptions for the CDI, CAUTI, and CLABSI NHSN Measures

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>CDI, CAUTI, and CLABSI Quarters in Revised/Proposed Schedule for Care Compare (number of quarters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2020</td>
<td>Q4 2018 – Q3 2019 (4)</td>
</tr>
<tr>
<td>March 2021</td>
<td>Q4 2018 – Q3 2019 (4)</td>
</tr>
<tr>
<td>June 2021</td>
<td>Q4 2018 – Q3 2019 (4)</td>
</tr>
<tr>
<td>September 2021</td>
<td>Q4 2018 – Q3 2019 (4)</td>
</tr>
<tr>
<td>December 2021</td>
<td>Q1 2019 – Q4 2019 (4)</td>
</tr>
<tr>
<td>March 2022</td>
<td>Q2 2019 – Q4 2019, Q3 2020 (4)</td>
</tr>
<tr>
<td>June 2022*</td>
<td>Q3 2020 – Q2 2021</td>
</tr>
</tbody>
</table>

* Normal reporting resumes with 4 contiguous quarters of data.

Note: The shaded cells represent data held constant due to PHE related to COVID-19.
Table IX.E.-09. Revised and Proposed Schedule for Refreshes Affected by COVID-19 PHE Exemptions for the HCP Influenza NHSN Measure

<table>
<thead>
<tr>
<th>Quarter Refresh</th>
<th>HCP Influenza Quarters in Revised/Proposed Schedule for Care Compare (number of quarters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2020</td>
<td>Q4 2017 – Q1 2018 (2)</td>
</tr>
<tr>
<td>March 2021</td>
<td>Q4 2017 – Q1 2018 (2)</td>
</tr>
<tr>
<td>June 2021</td>
<td>Q4 2017 – Q1 2018 (2)</td>
</tr>
<tr>
<td>September 2021</td>
<td>Q4 2017 – Q1 2018 (2)</td>
</tr>
<tr>
<td>December 2021</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>March 2022</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>June 2022</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>September 2022</td>
<td>Q4 2018 – Q1 2019 (2)</td>
</tr>
<tr>
<td>December 2022</td>
<td>Q4 2020 – Q1 2021 (2)*</td>
</tr>
</tbody>
</table>

* Normal reporting resumes.

Note: The shaded cells represent data held constant due to PHE related to COVID-19.

F. Proposed Changes to the Medicare Promoting Interoperability Program

1. Background

a. Statutory Authority for the Medicare Promoting Interoperability Program

The HITECH Act (Title IV of Division B of the ARRA, together with Title XIII of Division A of the ARRA) authorized incentive payments under Medicare and Medicaid for the adoption and meaningful use of certified electronic health record technology (CEHRT). Incentive payments under Medicare were available to eligible hospitals and CAHs for certain payment years (as authorized under sections 1886(n) and 1814(l) of the Act, respectively) if they successfully demonstrated meaningful use of CEHRT, which included reporting on clinical quality measures using CEHRT. Incentive payments were available to Medicare Advantage (MA) organizations under section 1833(m)(4) of the Act for certain affiliated hospitals that successfully demonstrated meaningful use of CEHRT. In accordance with the timeframe set forth in the statute, these incentive payments under Medicare generally are no longer available, except for Puerto Rico eligible hospitals. For more information on the Medicare incentive payments available to Puerto Rico eligible hospitals, we refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 58976 and 58977) and the FY 2019 IPPS/LTCH PPS final rule (83 FR 41672 through 41675).

Sections 1886(b)(3)(B)(ix) and 1814(l)(4) of the Act also established downward payment adjustments under Medicare, beginning with FY 2015, for eligible hospitals and CAHs that did not successfully demonstrate meaningful use of CEHRT for certain associated electronic health record (EHR) reporting periods. Section 1853(m)(4) of the Act established a negative payment adjustment to the monthly prospective payments for a qualifying MA organization if its affiliated eligible hospitals are not meaningful users of CEHRT, beginning in 2015.

Section 1903(a)(3)(F)(i) of the Act established 100 percent Federal financial participation (FFP) to States for providing incentive payments to eligible Medicaid providers (described in section 1903(l)(2) of the Act) to adopt, implement, upgrade, and meaningfully use CEHRT. We previously established, however, that in accordance with section 1903(l)(5)(D) of the Act, in no case may any Medicaid eligible hospital receive an incentive after CY 2021 (42 CFR 495.310(f), 75 FR 44319).

Therefore, December 31, 2021 is the last date that States could make Medicaid Promoting Interoperability Program payments to Medicaid eligible hospitals (other than pursuant to a successful appeal related to CY 2021 or a prior year) (84 FR 42591 through 42592). For additional discussion or context around the discontinuation of the Medicaid Promoting Interoperability Program, we refer readers to the FY 2019 IPPS/LTCH PPS final rule (83 FR 41676 through 41677).

2. EHR Reporting Period

a. Background

Under the definition of “EHR reporting period for a payment adjustment year” at 42 CFR 495.4, the EHR reporting period in CY 2022 is a minimum of any continuous 90-day period in CY 2022 for new and returning participants in the Medicare Promoting Interoperability Program. Eligible hospitals and CAHs may select an EHR reporting period of a minimum of any continuous 90-day period in CY 2022 (from January 1, 2022 through December 31, 2022) (85 FR 58966 through 58967). Since the EHR reporting period in CY 2015 (see 80 FR 62777 through 62781, and the definitions of EHR reporting period and EHR reporting period for a payment adjustment year at 495.4), we have consistently established an EHR reporting period of any continuous 90-day period for eligible hospitals and CAHs for the Medicare Promoting Interoperability Program in order to provide maximum flexibility to providers and their health IT vendors.

b. Proposed EHR Reporting Period in CY 2023 and CY 2024 for Eligible Hospitals and CAHs

For CY 2023, we are proposing to continue the EHR reporting period of a minimum of any continuous 90-day period for new and returning participants (eligible hospitals and CAHs) in the Medicare Promoting Interoperability Program.

For CY 2024, we are proposing an EHR reporting period of a minimum of
any continuous 180-day period for new and returning participants (eligible hospitals and CAHs) in the Medicare Promoting Interoperability Program.

We are proposing to amend the definition of “EHR reporting period for a payment adjustment year” at 42 CFR 495.4 to include these proposed EHR reporting periods in CYs 2023 and 2024. This CY 2024 proposal would minimally increase the information collection burden on data submitters, and having additional data available to further improve our program is beneficial. In increasing the EHR reporting period in CY 2024, this would allow eligible hospitals, CAHs, and vendors time to plan in advance, build upon, and utilize investments already made within their infrastructure. Reporting on additional data would also provide eligible hospitals and CAHs the opportunity to continuously monitor their performance and identify areas that may require investigation and corrective action. Increasing the EHR reporting period in CY 2024 is important for the continued improvement of interoperability and health information exchange by producing more comprehensive and reliable data for patients and providers, which are key goals of the Medicare Promoting Interoperability Program.

We are seeking comment on the proposed EHR reporting periods in CYs 2023 and 2024, and proposed changes to the regulation text at 42 CFR 495.4.

3. Proposed Changes to the Query of Prescription Drug Monitoring Program Measure Under the Electronic Prescribing Objective

a. Measure Background

We have adopted a Query of Prescription Drug Monitoring Program (PDMP) measure under the Electronic Prescribing objective. For background on this measure, we refer readers to the FY 2019 IPPS/LTCPP final rule (83 FR 41648 through 41656), the FY 2020 IPPS/LTCPP final rule (84 FR 42593 through 42596), and the FY 2021 IPPS/LTCPP final rule (85 FR 58963 through 58964). In the FY 2021 IPPS/LTCPP final rule (85 FR 58967 through 58969), we finalized that the Query of PDMP measure will remain optional and eligible for 5 bonus points in CY 2021.

b. State PDMPs’ Progress and Previous Stakeholder Feedback

In the FY 2020 and FY 2021 IPPS/LTCPP final rules (84 FR 42593 through 42596 and 85 FR 58967 through 58969), we described the concern expressed by stakeholders that they believed it was premature for the Medicare Promoting Interoperability Program to require the Query of PDMP measure and score it based on performance. Feedback received from health IT vendors and hospitals expressed that flexibility in the measure presents unintended challenges such as significant burden associated with IT system design and additional development needed to accommodate the measure and any future changes to it.

We understand that there is a wide variation across the country in how health care providers are implementing and integrating PDMP queries into health IT and clinical workflows, and that it could be burdensome for health care providers if we were to narrow the measure to specify a single approach to PDMP–EHR integration at this time. At the same time, we have heard extensive feedback from EHR developers that effectively incorporating the ability to count the number of PDMP queries in the EHR would require more robust measurement specifications. These stakeholders stated that health IT developers may face significant cost burdens if they fully develop numerator and denominator calculations for all the potential use cases and are required to change the specification at a later date. Stakeholders have noted that the costs of additional development will likely be passed on to health care providers without additional benefit as this development would be solely for the purpose of calculating the measure rather than furthering the clinical goal of the measure (for public comments discussed in last year’s final rule, we refer readers to 85 FR 58967 through 58969).

In support of efforts to expand the use of PDMPs, there are currently a number of federally supported activities underway aimed at developing a more robust and standardized approach to EHR–PDMP integration. Federal partners, including the CDC and ONC, and private sector stakeholders, are focused on developing and refining standard-based approaches to enable effective integration into clinical workflows, exploring emerging technical solutions to enhance access and use of PDMP data, and providing technical resources to a variety of stakeholders to advance and scale the interoperability of health IT systems and PDMPs. Moreover, a number of enhancements to PDMPs are occurring across the country, including enhancements to RxCheck, which is a federally supported interstate exchange hub for PDMP data. The ONC Interoperability Standards Advisory describes current and emerging standards related to PDMP and opioid use disorder (OUD) data capture and exchange that would allow a provider to request a patient’s medication history from a State PDMP and for PDMP data to be exchanged between systems and states. We believe these standards and technical approaches are likely to rapidly reach maturity to support exchange across health care system stakeholders.

The SUPPORT for Patients and Communities Act (Pub. L. 115–271), enacted in 2018, is an important investment in combating the opioid epidemic. Several of the provisions of the SUPPORT for Patients and Communities Act address opioid use disorder prevention, recovery, and treatment, including legislative changes specific to the Medicare and Medicaid programs intended to increase access to evidence-based treatment and follow-up care. However, with respect to PDMPs, the SUPPORT for Patients and Communities Act included new requirements and Federal funding for PDMP enhancement, integration, and interoperability, and established mandatory use of PDMPs by certain Medicaid providers to help reduce opioid misuse and overprescribing and to help promote the overall effective prevention and treatment of opioid use disorder beginning in October of 2021.

3. Proposed Measure Changes

c. Proposed Measure Changes

Given current efforts to improve the technical foundation for EHR–PDMP integration, the continued implementation of the SUPPORT for Patients and Communities Act (in particular, its provisions specific to Medicaid providers and qualified PDMPs), our ongoing review of alternative measure approaches, and stakeholder concerns about the current readiness across states for implementation of the existing measure, we believe that at least one more year is needed prior to potentially requiring the Query of PDMP measure.

While we appreciate the concerns that stakeholders have shared, we continue to believe that this measure can play an important role in helping to address the opioid crisis. By integrating PDMP data into the health record, health care providers can improve clinical decision making by utilizing this information to identify potential opioid use disorders.


1428 https://www.pdmpassist.org/RxCheck.
inform the development of care plans, and develop effective interventions. Maintaining it as an optional measure with bonus points signals to the hospital and vendor community that this is an important measure which addresses a current gap that can help spur development and innovation in order to reduce barriers and challenges.

Therefore, we are proposing for the EHR reporting period in CY 2022 to maintain the Electronic Prescribing Objective’s Query of PDMP measure as optional while increasing its associated bonus points from 5 points to 10 points, as well as proposing corresponding changes to the regulation at 495.24(e)(5)(iii)(B). As a result of this proposal, the maximum total points available for the Electronic Prescribing Objective would increase to 20 points for CY 2022, and we are proposing to revise 495.24(e)(5)(iii)(B) to reflect this increase. This proposed increase of the measure’s associated bonus points to 10 points is consistent with the policy finalized for MIPS eligible clinicians in the CY 2021 PFS final rule (85 FR 84887 through 84888) and would be in alignment with the MIPS Promoting Interoperability performance category.

We seek comments on our proposal to maintain the Query of PDMP measure in the EHR reporting period in CY 2022 as optional and to increase the bonus points associated with the measure to 10 bonus points.

d. Health IT Updates and Measure Direction

Given recent progress in a variety of areas, we believe that there is now a clearer trajectory forward to potentially requiring the Query of PDMP measure. These developments include updated requirements for certified health IT, standards development activities around PDMPs, and other projects that can more tangibly inform future policy changes. For example, under final policies recently adopted in the CY 2021 Physician Fee Schedule final rule (85 FR 84815 through 84828), participants in the Medicare Promoting Interoperability Program and the MIPS Promoting Interoperability performance category will begin using certified EHR technology incorporating APIs based on HL7® FHIR® standard version 4 in CY 2023 consistent with updates to certified health IT which were finalized in the “21st Century Cures Act: Interoperability, Information Blocking, and the ONC Health IT Certification Program” final rule (hereinafter referred to as the “ONC 21st Century Cures Act final rule”), published in the May 1, 2020 Federal Register (85 FR 25642 through 25961 and 25740). Updates to 2015 Edition health IT certification criteria in the ONC 21st Century Cures Act final rule also incorporated NCPDP SCRIPT standard version 2017071 for electronic prescribing. The availability of both standardized APIs and updated standards for e-prescribing within certified health IT could serve as a stepping stone to future technical approaches that enable more seamless exchange of data between CEHRIT and PDMP systems.

A number of recent efforts have sought to improve interoperability between EHRs and PDMPs. In 2020, ONC completed work to map the NCPDP SCRIPT standard version 2017071, the Prescription Monitoring Information Exchange (PMIX) standard version 2, and the 2015 American Society for Automation in Pharmacy (ASAP) Prescription Monitoring Program Web Service standard version 2.1A to the Health Level Seven International (HL7®) Fast Healthcare Interoperability Resources (FHIR®) standard version Release 4.

ONC also began work in partnership with the CDC, the Department of Justice’s Bureau of Justice Assistance, and the eHealth Exchange to develop a prototype to pilot an innovative technical solution for the delivery of patient medication histories across State lines via HL7® FHIR®. The eHealth Exchange is a network of networks that is active in all 50 states connecting Federal and non-Federal healthcare organizations to improve patient care and public health. To date, the prototype has been successfully tested in several states. Early prototype testing used synthetic data to evaluate system capacity to send and receive a patient’s medication history request and response. The goal of the project is to allow any provider who is live on the eHealth Exchange to use that existing connection to query a patient’s record on the RxCheck Hub, which routes the query to individual State PDMPs who are also live on RxCheck. This solution will enable providers to query PDMPs via existing connections to health information exchange networks as a way to: (1) Leverage existing technology, (2) reduce burden associated with multiple, disparate system interfaces and workflows, and (3) allow for the exchange and full integration of data within allowable law from the point of exchange for medication reconciliation, allergy checks, and other forms of clinical decision support.

Based upon these developments, which are advancing enhanced certified functionality, effective functional data exchange, and the use of open, mature standards, we believe there is a much better informed roadmap for achieving better integration between PDMPs and EHRs with enhanced interoperability of controlled prescription data across states and systems. We believe that as these activities develop, they can help to address some of the previous concerns raised by stakeholders around this measure, and we will continue to work with ONC to monitor these activities.

While we believe the Query of PDMP measure is very important to avoid and address the over-prescribing of opioids, we also recognize that some states and systems may not be ready at this time to effectively exchange this data. In light of further work in this area and our stated goals for increasing the impact of this measure, we are seeking stakeholder comment on plans for requiring the Query of PDMP measure in the Medicare Promoting Interoperability Program in the near future. To advance in this direction with both transparent proposals and informed guidance, we request public comment on the future direction for the measure, specifically:

- To what degree would all eligible hospitals and CAHs be prepared to report on the current attestation-based Query of PDMP measure in the near future? What additional considerations would need to be addressed before transitioning to a performance-based version of the measure?
- Would changes to the Query of PDMP measure be necessary to accommodate other technical approaches that may be implemented in the future, such as exchange of information with a PDMP or with multiple PDMPs using HL7® FHIR®?
- What, if any, exclusions should be made available as part of the measure’s specifications with regard to eligible hospitals and CAHs?
- When will State PDMPs be ready to effectively exchange data with provider systems using HL7® FHIR® to support this measure? What are the most common standards and approaches used to access PDMP data through provider systems currently?
- What technical considerations exist for intrastate vs. interstate PDMP queries? How could health information exchange networks play a role in expanding access to PDMP data? In what ways could FHIR® applications be supported to safely share PDMP data within a clinician’s workflow?
4. Proposed Changes to the Provide Patients Electronic Access to Their Health Information Measure Under the Provider to Patient Exchange Objective

a. Background

In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41636 through 41668), we renamed the Patient Electronic Access Objective to the Provider to Patient Exchange Objective. This objective includes the Provide Patients Electronic Access to Their Health Information measure.

b. Proposed Data Availability Requirement for Eligible Hospitals and CAHs

We are proposing to modify the Provide Patients Electronic Access to Their Health Information measure to require eligible hospitals and CAHs to ensure that patient health information remains available to the patient (or patient-authorized representative) to access indefinitely and using any application of their choice that is configured to meet the technical specifications of the API in the eligible hospital or CAH’s CEHRT, as described under 495.24(e)(7)(ii)(B). Eligible hospitals and CAHs would be required to ensure this information remains available indefinitely (that is, not merely for a defined period of time).

The proposed requirement would apply beginning with the EHR reporting period in CY 2022, and would include all patient health information from encounters on or after January 1, 2016. We are proposing to add corresponding regulatory text at 495.24(e)(7)(ii)(C), as well as proposing to restructure some of the existing text under 495.24(e)(7) to improve clarity and readability.

In the Patient Access and Interoperability final rule (85 FR 25510, 25527 through 25528), we finalized that beginning on January 1, 2021, MA organizations, Medicaid FFS programs, Medicaid managed care plans, CHIP FFS programs, CHIP managed care entities, and QHP issuers on the FFEs must make available to beneficiaries any data that they maintain with a date of service on or after January 1, 2016. Recognizing the challenges faced by payers during the COVID–19, we announced we it will exercise enforcement discretion and not enforce these new requirements until July 1, 2021. The look-back period finalized in the Patient Access and Interoperability final rule aimed to align with the required policy for payer-to-payer data exchange finalized in the same rule, providing patients with the same timeframe of information as payers to ensure consistent implementation, while minimizing cost and burden and maximizing patient benefit (85 FR 25542). The finalized look-back period for payers also required that data be available for 5 years after disenrollment (§ 422.119(f)).

Currently, the Provide Patients Electronic Access to Their Health Information measure does not specify how long eligible hospitals and CAHs are required to make patient data available or ensure that patient data remain available to patients in the event that an eligible hospital or CAH switches EHR vendors. In an effort to minimize stakeholder burden, we want to align the date under our proposal for making information about encounters available, with the date of service start date (January 1, 2016) finalized in the Patient Access and Interoperability final rule. As an alternative to our proposal, we considered different encounter start dates, such as encounters on or after January 1, 2012, or encounters on or after January 1, 2019. We believe, however, that a requirement for hospitals to ensure patient health information remains available indefinitely, as well as an encounter start date of January 1, 2016 would provide the most benefit to patients when accessing their health information as compared to the burden and costs to eligible hospitals and CAHs implementing these proposed requirements.

We are seeking public comment on our proposal to modify the Provide Patients Electronic Access to Their Health Information measure, as well as the alternatives we considered.

5. Health Information Exchange Objective: Engagement in Bi-Directional Exchange Through Health Information Exchange (HIE)

a. Background

Organizations that provide health information exchange services (HIEs) allow for the sharing of health information among clinicians, hospitals, care coordinators, labs, radiology centers, and other health care providers through secure, electronic means so that health care providers can have the benefit of the most recent information available from other health care providers. HIEs allow for broader interoperability beyond one health system or point-to-point connections among payers, patients, and health care providers. By enabling bi-directional exchange of information between health care providers and aggregating data across providers with disparate systems, HIEs can bring together the information needed to create a true longitudinal care record and support improved care coordination by facilitating timely access to robust health information across care settings. For the purposes of this proposal, bi-directional exchange means that the hospital’s EHR enables querying and sharing data by sending, receiving, and incorporating data via an HIE for all unique patients treated in place of service inpatient hospital or emergency department (POS 21 and 23 respectively). Healthcare quality and public health outcomes have been shown in multiple studies to experience a beneficial effect from health information exchanges with improved medication reconciliation, improved immunization and health record completeness, and improved population level immunization rates, while other research has shown a decrease in emergency department utilization and improved care process when using an HIE.

HIE services are available from many organizations today, which may be referred to as HIEs, health information networks, health information organizations (HIOs), or other terms. State and regional HIEs have a long history of connecting health care providers caring for a common patient population across a specified geographic area. These HIEs represent a significant public investment, with $564 million in Federal funding provided as part of the 2009 HITECH Act, ongoing State funding and support from CMS under both 42 CFR 495.322 and 43 CFR 433 Subpart C. These State and regional HIEs typically obtain not just EHR-generated data, but a broader array of ADT (admit, discharge, transfer) feeds and lab feeds as they build on local relationships. These HIEs may have similar but not identical capabilities, employing different models of data storage and a variety of business models. Regional and State-based exchanges have also begun to address national-level exchange, with efforts designed to link State and regional 1433

1435 https://protec2.jirewe.com/utK7/d0078709-84c28e1a-d89756b6-60c4c7a4d5650-
1436 e634c1be401d0f533e5chttps://www.healthit.gov/sites/default/files/reports/ finalsummativereportmarch_2016.pdf.
networks so that health care providers can obtain information on individual patients wherever they receive care throughout the United States. In addition to these initiatives, many EHR vendors are participating in the development of national-level networks designed to ensure their customers can share information with customers of other vendors.

Recent data indicate that there is wide availability of HIEs across the nation, yet gaps remain. Forthcoming analysis of a recent survey of HIEs found that 45 states, including DC, were covered by one or more operational HIOs that reported a statewide catchment area. Moreover, 81 percent (or 2,770) of health service areas (HSAs) in the United States were in the catchment area of at least one operational HIE effort and 32 percent of HSAs had more than one operational HIE effort.\(^{1435}\)

Despite the widespread availability of HIE services, however, HIE participation data suggest there are still significant opportunities to increase health care provider engagement with HIEs. For instance, in a 2019 survey, 74 percent of hospitals reported participating in either a State, regional, or local HIE and 69 percent reported participation in a national HIE network. 11 percent of hospitals reported not participating in any type of HIE.\(^{1436}\)

b. Proposed New Health Information Exchange (HIE) Bi-Directional Exchange Measure

We believe that incentivizing participation in HIEs that support bi-directional exchange will contribute to a longitudinal care record for the patient and facilitate enhanced care coordination across settings. The use of an HIE means that essential health information is available for care team members even in the case of referrals the clinician may not be aware of, or for instances where the eligible hospital or CAH is contributing to the patient’s record, but may not be the health care provider making the referral. In these instances, such transitions may or may not be able to be automatically identified by an EHR for inclusion in the denominators of the two existing measures associated with the HIE objective for the Promoting Interoperability Program (42 CFR 495.24(e)(6)). For example, consider a patient who has a hospital emergency room visit in January 2020 and receives a prescription, then goes to her primary care physician appointment in March 2020 without notifying the primary care physician of the hospital visit or the new medication. The primary care physician refers the patient to a specialist and the specialist receives and reconciles the patient’s data from her primary care physician records. In this scenario, the hospital may not have had access to the patient’s health record from the primary care physician, and the primary care physician and the specialist may not have access to the data from the hospital including essential information like an update to current medications.

Moreover, if the patient were to have another emergent issue and require emergency room care, the situation becomes further compounded. For this scenario, if the hospital, primary care physician, and specialist participated in a bi-directional exchange with a health information network, each health care provider from the hospital to the specialist would have access to all of the patient’s records that may be critical for patient care and safety. Under the existing measures for the HIE objective (42 CFR 495.24(e)(6)), only the known transition of care from primary care physician to specialist would be included in the denominator. However, under the alternative measure for bi-directional exchange through a HIE that we are proposing, we would incentivize the eligible hospital or CAH to engage in health information exchange for care coordination that includes these additional transitions and referrals as well as other potential scenarios: Where the recipient of the transition of care may be unknown; where the eligible hospital or CAH may not be the referring health care provider; where the transition of care may happen outside the scope of the EHR reporting period. In this way, the eligible hospital or CAH’s action to engage in bi-directional exchange through an HIE would allow each health care provider to contribute to the longitudinal care record in a manner that supports a wide range of transitions and referrals beyond those currently reflected in the measure denominators. This engagement supports robust health information exchange without placing burden on the hospital or the patient to be individually accountable to facilitate exchange via multiple (and potentially unknown) point-to-point connections.

The current COVID-19 public health emergency (PHE) has further highlighted the need to encourage interoperable HIE infrastructure and bi-directional exchange across the country that can ensure patients, health care providers, and public health authorities have the data they need to support quality care. In addition to supporting general care coordination, HIEs can specifically support the PHE response by facilitating enhanced use of telehealth and telemedicine through obtaining and aggregating patient information including when the patient’s health care provider(s) may not be known.

In the FY 2019 IPPS/LTCH PPS proposed rule (83 FR 20537), we requested comment on whether eligible hospital or CAH participation in the Trusted Exchange Framework and Common Agreement (TEFCA) should be considered a health IT activity that could count for credit within the Health Information Exchange objective in lieu of reporting on measures for this objective. TEFCA, which is currently under development, addresses the 21st Century Cures Act requirement to “develop or support a trusted exchange framework, including a common agreement among health information networks nationally.” We received comments in support of this concept (83 FR 41669) although some disagreed indicating that they were concerned about adding additional burden.

Subsequently, in the CY 2021 PFS final rule (85 FR 84888 through 84983), we added an alternative measure for bi-directional exchange through a HIE under the Health Information Exchange objective for the MIPS Promoting Interoperability Program beginning with the performance period in 2021. We are now proposing to add a similar measure for eligible hospitals and CAHs participating in the Medicare Promoting Interoperability Program beginning with the EHR reporting period in CY 2022.

We are proposing to add the following new measure for inclusion in the Health Information Exchange objective at 42 CFR 495.24(e)(6)(ii)(C): Health Information Exchange (HIE) Bi-Directional Exchange Measure. We propose to add this new HIE Bi-Directional Exchange measure to the HIE objective as an optional alternative to the two existing measures: The Support Electronic Referral Loops by Sending Health Information Exchange measure 42 CFR 495.24(e)(6)(ii)(A) and the Support Electronic Referral Loops by Receiving and Reconciling Health Information measure 42 CFR 495.24(e)(6)(ii)(B). We are proposing that eligible hospitals and CAHs may either report the two existing measures and associated exclusions OR

\(^{1435}\) Health Affairs, in press. Forthcoming analysis of survey conducted under Contract No. HHSP231201700404C, OMB Control No. 0955–0019.

\(^{1436}\) “Use of Certified Health IT and Methods to Enable Interoperability by U.S. Non-Federal Acute Care Hospitals, 2019” ONC Data Brief No. 54, February 2021. Seehttps://www.healthit.gov/sites/default/files/page/2021-03/Hospital%20Use%20of%20Certified%20HIT_Interop%20v1.1.pdf.
may choose to report the new measure and are proposing to revise 42 CFR 495.24(e)(6)(ii) to reflect this change. We propose that the HIE Bi-Directional Exchange measure would be worth 40 points. In no case could more than 40 points total be earned for the HIE objective. We are proposing the HIE Bi-Directional Exchange measure would be reported by attestation and would require a yes/no response. As we believe that fulfillment of this measure is an extremely high value action, a “yes” response would enable eligible hospitals and CAHs to earn the 40 points allotted to the HIE objective. We propose that eligible hospitals and CAHs would attest to the following:

- Participating in an HIE in order to enable secure, bi-directional exchange of information to occur for all unique patients admitted to or discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23), and all unique patient records stored or maintained in the EHR for these departments, during the EHR reporting period in accordance with applicable law and policy.
- Participating in an HIE that is capable of exchanging information across a broad network of unaffiliated exchange partners including those using disparate EHRs, and not engaging in exclusionary behavior when determining exchange partners.
- Using the functions of CEHRT to support bi-directional exchange with an HIE.

We believe it is appropriate for the new optional measure to serve as an alternative measure of performance on health information exchange since, in order to successfully meet the measure, an eligible hospital or CAH would be required to meet an overall standard of performance on health information exchange that is broader than the denominators and numerators of the current measures. To successfully attest to the new measure the eligible hospital or CAH must establish the technical capacity and workflows to engage in bi-directional exchange of information via an HIE for to occur for all unique patients admitted to or discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) and all unique patient records stored or maintained in the EHR for these departments during the EHR reporting period. This includes enabling the ability to query for or receive health information to occur for all unique patients admitted to or discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) and all unique patient records stored or maintained in the EHR, as well as enabling sending or sharing information for these patients regardless of known referral or transition status, or the timing of any potential transition or referral. The proposed requirement to enable querying for or receiving health information for all unique patients admitted to or discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) and all unique patient records stored or maintained in the EHR for these departments is broader than the current Support Electronic Referral Loops by Receiving and Reconciling Health Information measure, which includes only new patients and known transitions or referrals received that occur during the EHR reporting period. Similarly, the proposed requirement to enable sending or sharing information for all unique patients admitted to or discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) and all unique patient records stored or maintained in the EHR for these departments represents a broader scope than the current Support Electronic Referral Loops by Sending Health Information measure which includes only known transitions of care or referrals made that occur during the EHR reporting period. This proposed requirement is likewise more expansive than the denominators of either measure.

Relative to the numerators for the current measures, the new optional measure would require that bi-directional engagement be enabled for all unique patients admitted to or discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) and all unique patient records stored or maintained in the EHR for these departments during the EHR reporting period. This is similar to achieving a score of 100 percent on both the Support Electronic Referral Loops by Sending Health Information measure and the Support Electronic Referral Loops by Receiving and Reconciling Health Information measure, while additionally completing required actions for additional exchange cases not included in the existing denominators. Finally, while we believe this optional measure would establish a high-performance standard with respect to information sharing, we also believe that availability of this optional measure would reduce current reporting burden associated with the program, as eligible hospitals or CAHs choosing to report on the measure would not be required to report on the two existing numerator/denominator measures.

While we believe there are a significant number of HIEs across the country that would meet the standards described in the attestation statements, some HIE arrangements may not have the capacity to enable bi-directional exchange for all unique patients, and thus would not meet the standard described in the attestation statements required to fulfill the measure. For instance, we would exclude exchange networks that only support information exchange between affiliated entities, such as health care providers that are part of a single health system, or networks that only facilitate sharing between health care providers that use the same EHR vendor.

To successfully attest to this measure, the eligible hospital or CAH must use the capabilities defined for CEHRT to engage in bi-directional exchange via the HIE, which includes capabilities which support exchanging the clinical data within the Common Clinical Data Set (CCDS) or the United States Core Data for Interoperability (USCDI). This is consistent with the existing measures under the Health Information Exchange objective, which require the use of CEHRT to create a C-CDA document, and support the exchange of the clinical data within the CCDS or the USCDI. We believe there are numerous certified health IT capabilities which can support bi-directional exchange with a qualifying HIE. For instance, participants may interact with an HIE by using technology certified to the criterion at § 170.315(b)(1) to transmit C-CDAs to the HIE. Participants could also utilize API technology certified to either the criterion at § 170.315(g)(8) or (g)(10), as finalized in the ONC 21st Century Cures Act final rule (85 FR 25734), to enable an HIE to obtain data in the CCDS or USCDI from a participant’s EHR. Additional certified health IT modules may also support exchange of information with an HIE for transitions of care, including modules certified to certification criteria at § 170.315(g)(7). “Design and performance—Application access—patient selection,” and (g)(9), “Design and performance—Application access— all data request.” which support information exchange via API; the certification criterion at § 170.315(e)(1) “View, download, and transmit to 3rd party” which supports patient access to their information; and the certification criterion at § 170.315(g)(6) “Consolidated CDA creation performance” which supports creation of a summary of care record. We recognize that HIEs are currently...
interacting with health care providers using certified health IT in a variety of ways, and believe that we should allow for substantial flexibility in how health care providers use certified health IT to exchange data using an HIE.

Furthermore, we wish to clarify that an eligible hospital or CAH attesting to these three statements would not be required to use all of the relevant certified health IT modules, as previously described, to support their connection with an HIE, nor must a connection with an HIE be solely based on certified health IT modules. For instance, a provider’s EHR could generate a C–CDA using a certified health IT module, and subsequently transmit that document to an HIE using technology that is not part of a certified health IT module. Such an approach would be acceptable for attesting to the third proposed attestation statement requiring the use of CEHRT to support the measure.

We note that none of the actions required to attest to this measure are intended to conflict with a patient’s rights or covered entities’ (for example, health care providers) requirements/ responsibilities under the HIPAA Privacy Rule, as set out at 45 CFR parts 160 and 164. We also understand that different HIEs that enable exchange in the manner described may have different policies related to confidentiality of patient information based on local circumstances and requirements. Nothing in the attestation statements for this measure are intended to conflict with individual HIE policies that may exist in these areas, or prevent eligible hospitals or CAHs from complying with these policies as a condition of their participation in the HIE.

We invite comments on this proposal, and whether commenters believe such an optional measure would incentivize eligible hospitals and CAHs to participate in HIEs while establishing a high performance standard for sharing information with other health care providers.

Finally, while our proposed attestation statements for this measure do not explicitly refer to participation in a health information network, or partnering with a health information network that participates in the Trusted Exchange Framework and Common Agreement (TEFCA) described in section 4003 of the 21st Century Cures Act, we recognize that this is likely to be an important way for eligible hospitals and CAHs to enable bi-directional health information exchange in the future. We will continue to explore ways to provide further guidance and/or update this measure to align with the use of health information networks that participate in the TEFCA in the future. For more information on current developments related to the TEFCA, we refer readers to www.HealthIT.gov/TEFCA.

6. Modifications to the Public Health and Clinical Data Exchange Objective
   a. Background
      In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41637 through 41645, 41665 through 41676), for the Public Health and Clinical Data Exchange Objective, we finalized that eligible hospitals and CAHs must report on any two measures of their choice from the following 6 measures: Syndromic Surveillance Reporting; Immunization Registry Reporting; Clinical Data Registry Reporting; Electronic Case Reporting; Public Health Registry Reporting; and Electronic Reportable Laboratory Result Reporting. We also finalized that an eligible hospital or CAH must submit a yes/no response for any two measures to earn 10 points for the objective. Failure to report on two measures or submitting a “no” response for a measure will earn a score of zero. In addition, there are exclusions available for each of the measures. If an exclusion is claimed for one measure, but the eligible hospital or CAH submits a “yes” response for another measure, they would earn the 10 points for the Public Health and Clinical Data Exchange objective. If an eligible hospital or CAH claims exclusions for both measures they select to report on, the 10 points would be redistributed to the Provide Patients Electronic Access to Their Health Information measure under the Provider to Patient Exchange objective. The Medicare Promoting Interoperability Program for eligible hospitals and CAHs has been an important mechanism for encouraging healthcare data exchange for public health purposes through the Public Health and Clinical Data Exchange Objective. But in an attempt to reduce burden, we previously stated our intention to propose in future rulemaking to remove the Public Health and Clinical Data Exchange objective and measures no later than CY 2022 (83 FR 41665). Many commenters strongly opposed this potential policy change noting that the inclusion of this objective incentivizes health care providers to share data with public health agencies (83 FR 41666). In response to these comments, we stated that we will continue to monitor the data we compile specific to the public health reporting requirements and take the commenters’ concerns into consideration related to future actions (83 FR 41667). Effective responses to public health events, such as the COVID–19 PHE, require fast, accurate exchange of data between health care providers and Federal, State, and local public health agencies (PHAs). Health care providers collect these data for patient care and PHAs need them to protect the public, whether to track an outbreak, initiate contact tracing, find gaps in vaccine coverage, or pinpoint the source of a foodborne outbreak.

   b. Proposed Modifications to the Reporting Requirements for the Public Health and Clinical Data Exchange Objective
      In this section, we are proposing to require four of the measures associated with the Public Health and Clinical Data Exchange Objective, beginning with the EHR reporting period in CY 2022: Syndromic Surveillance Reporting; Immunization Registry Reporting; Clinical Data Registry Reporting; Electronic Case Reporting; and Electronic Reportable Laboratory Result Reporting. We are proposing corresponding changes to the regulation text at 42 CFR 495.24(e)(6)(i). These four measures would put PHAs on better footing for future health threats and a long-term COVID–19 pandemic recovery by strengthening three important public health functions: (1) Early warning surveillance, (2) case surveillance, and (3) vaccine uptake. Requiring these measures would enable nationwide syndromic surveillance for early warning of emerging outbreaks and threats; automated case and laboratory reporting for fast public health response; and local and national visibility on immunization uptake so PHAs can tailor vaccine distribution strategies.

(1) Syndromic Surveillance Reporting Measure

Syndromic surveillance provides PHAs with a timely way to detect, understand, and monitor health events using data from EHRs in emergency departments (EDs) and urgent care centers. By tracking patient symptoms and discharge diagnoses, PHAs have a strong early warning system that allows them to identify, monitor, characterize, and respond to novel and continuing
health events (for example, influenza, drug overdoses, vaping associated lung injuries, natural disasters, bioterrorism threats, and COVID–19) in near real time. Syndromic surveillance also provides real-time information for health events that are not supported by case reporting or laboratory reporting, such as injuries, suicidal ideation, non-reportable infectious diseases, and subtle health changes that are undiagnosed but can be detected by automated monitoring of chief complaint narratives and population-level trends. Syndromic surveillance relies on the secondary use of EHR data that supports delivery of care, enabling an efficient and cost-effective way to identify and characterize public health threats. The provision of these data requires no action from a health care provider, with data exchange automated from the EHR.

Syndromic surveillance has been critical for responding to the COVID–19 PHE, enabling situational awareness for decision makers at local, State, and national levels. The National Syndromic Surveillance Program (NSSP) is the primary mechanism for national-level syndromic surveillance in the United States. State and local stakeholders are critical end users and facilitate onboarding of hospitals, administering access to data, and monitoring data quality. CDC provides tools and assistance to facilitate these functions (for example, message mapping guides, standards, onboarding assistance, and data quality resources). As of February 1, 2021, nearly 6,000 healthcare facilities covering 49 states and the District of Columbia contribute data to NSSP, representing approximately 70% of all U.S. nonfederal EDs.1437 Although some additional facilities report to local syndromic systems, and approximately 3 in 10 nonfederal hospitals are not participating in NSSP, there remain major gaps in syndromic surveillance coverage, leaving blind spots in the ability of State, local, and Federal PHAs to adequately prepare for emerging local and regional public health events.

We are proposing to make Syndromic Surveillance Reporting a required measure under the Public Health and Clinical Data Exchange Objective in the Medicare Promoting Interoperability Program beginning with the EHR reporting period in CY 2022 to expand the coverage of syndromic surveillance to every region in the United States, help healthcare facilities and PHAs better prepare for emerging health events, and provide critical national and early warning capabilities necessary for swift response and control of COVID–19 outbreaks. Requiring eligible hospitals and CAHs to report on participation in syndromic surveillance is anticipated to significantly increase hospital engagement with a PHA to submit syndromic data, particularly from the ED. The public health benefit of syndromic surveillance would be strengthened as the proportion of participating hospitals increases, that is, as more hospitals participate, there are more comprehensive and timely data with fewer gaps and the capability itself becomes better at detecting emerging threats. ED data are often the first indication of emerging health threats. As demonstrated with the COVID–19 pandemic, surveillance data from EDs are often foreshadow a rise in the percent of persons testing positive, case incidence and deaths, and can focus assessments on relevant populations, such as age groups, racial or ethnic groups, persons experiencing homelessness, persons with recent travel history, or recently vaccinated patients. Increased coverage would also improve coordination with PHAs providing hospitals with the ability to respond to the emergence of new health threats and modify their treatments, preparedness planning, and facility staffing accordingly. Converting the Syndromic Surveillance Reporting measure from optional to required would not pose a significant burden on hospitals; as 49 states are already participating in NSSP, the necessary infrastructure for wider adoption is already in place. More than two-thirds of nonfederal EDs participate in NSSP, demonstrating the feasibility of participation for a broad range of facilities and systems. Many nonparticipating facilities are part of larger health networks that have facilities already participating in NSSP.1438 CDC’s robust technical assistance program through NSSP and the network of State and local stakeholders would provide direct assistance to address technical challenges. While setting up the syndromic surveillance capability requires some initial implementation effort from the hospital, there is no significant ongoing burden, as the EHR vendor sets up and maintains the data feed.

In addition, upon further review of the current description for the Syndromic Surveillance Reporting measure, we believe the reporting requirement should include ED data only. Data from the ED setting are the most important based on clinical severity and there is existing infrastructure among hospitals and PHAs to make this a feasible policy to implement. While urgent care data are valuable, adding a requirement for reporting in that setting at this time could impose unnecessary burden on some healthcare facilities and PHAs. The current description of this measure is as follows: The eligible hospital or CAH is in active engagement with a public health agency to submit syndromic surveillance data from an urgent care setting. We are proposing to change the setting for which data is required to be submitted from urgent care to the emergency department, place of service code 23, beginning with the EHR reporting period in CY 2022. We are proposing to codify this change at 42 CFR 495.24(e)(8)(ii)(A). We are also proposing that the first exclusion for this measure be modified to remove the reference to urgent care. The other two exclusions are unchanged. We propose to modify the first exclusion at 42 CFR 495.24(e)(8)(ii)(A)(1).

1437 Overview of the National Syndromic Surveillance Program (NSSP), https://www.cdc.gov/nssp/overview.html.

1438 Overview of the National Syndromic Surveillance Program (NSSP), https://www.cdc.gov/nssp/overview.html.

vaccinations. At the population level, immunization registries provide data on vaccination coverage assessment and program operations and in guiding public health action to improve vaccination rates.

Currently, 50 states, the District of Columbia, 8 island territories, and 3 cities (New York City, Philadelphia, and San Diego) operate an immunization registry. CDC provides technical assistance and nationwide leadership to all State immunization registries to ensure the optimal use of immunization registries for determining vaccination coverage at local, State, and national levels. Immunization registries already have connections in place to capture administered doses in real-time for a substantial portion of the population, a process accelerated over the last eight years by the Promoting Interoperability Programs. According to data from the most recent CDC IIS Annual Report (2019) available, immunization registries currently hold demographics and immunization data on 95% of children 0–6 years, 82% of adolescents, and 60% of adults.\textsuperscript{1440} While each State Immunization Registry currently coordinates with health care providers and EHR systems to achieve interoperability and facilitate immunization reporting, varying State reporting policies limit the completeness and timeliness of records in immunization registries and the optimal use of immunization registries for determining vaccination coverage.

We are proposing to make the Immunization Registry Reporting measure a required measure under the Public Health and Clinical Data Exchange objective of the Medicare Promoting Interoperability Program beginning with the EHR reporting period in CY 2022 as it is critical for understanding vaccination coverage both at the jurisdiction level and nationwide and identifying where additional vaccination efforts are needed. Making standardized reporting to an immunization registry a required measure would provide an immediate benefit by increasing the COVID–19 vaccination records reported to these systems. Making the measure required would also improve the data quality of records in immunization registries and facilitate use of immunization registries for clinical decision support and tracking of vaccine administration and distribution.

We believe that making the Immunization Registry Reporting measure required, compared to the current option to choose this measure as one of two among six measures, would increase the reporting of immunization data by health care providers to public health agencies. Making the measure required is also critical for the COVID–19 vaccination response because it would provide a better view of the vaccines administered and distributed at national, State and local levels. This is a function immunization registries currently provide for all public vaccines, but would be particularly important for COVID–19 vaccines. In addition to the COVID–19 vaccination response, there is an equally important need for routine vaccination coverage to increase. Fear of COVID–19 has caused deferrals of routine vaccinations as patients limit their interactions, including with their family doctors. More complete data in immunization registries as a result of the required measure would also optimize the use of immunization registries to determine who has not been vaccinated, pockets of under vaccination, and identifying where interventions should be focused for routine and emergency response vaccines. Requiring the measure would reduce the regulatory and administrative burden health care providers experience when exchanging information with immunization registries. We are not proposing any changes to the description of the measure including any of the exclusions that we established at 42 CFR 495.24(e)(6)(iii)(B).

(3) Electronic Case Reporting

Healthcare providers are required by State law to report certain diseases and conditions, a process called case reporting, which provides PHAs with data on approximately 120 diseases and conditions of public health significance.\textsuperscript{1441} Case reporting is a vital and long-standing tool that PHAs use to prevent the spread of infectious diseases. Case reporting serves as early notification to PHAs for potential outbreaks, and includes information that enables PHAs to start contact tracing and other prevention measures. Case reports also include critical clinical information that would not be included in syndromic surveillance or laboratory reporting, and can help to illuminate the impact of comorbidities, treatments, and variable access to care. Information from the case reports can be used to further work on social determinants of health and ensure equal access to preventative care across populations. Electronic case reporting is the automated, real-time, bi-directional exchange of case report information between EHRs and PHAs. Electronic case reporting uses standard codes to trigger the transfer of relevant clinical data to PHAs for case investigation and follow-up. As of March 2021, most states do not require electronic submission of case reports as part of their regulations and case reporting often occurs through outdated manual methods (for example, fax, email, or phone), which results in delays, underreporting, and incomplete or inaccurate case data. Manual case reporting also imposes burdens on health care providers, taking staff time away from patients to submit case reports and comply with State reporting requirements. Electronic case reporting allows health care providers to fulfill mandated public health reporting requirements without imposing additional burden and disrupting the clinical workflow. This automated data exchange facilitates faster and more efficient disease tracking, case management, and contact tracing. Electronic case reporting provides more timely and complete data than manual reporting, including data on demographics, comorbidities, immunizations, medications, occupation, and other treatments.

Recent efforts by the CDC have sought to significantly improve the effectiveness of electronic case reporting through eCR Now, a strategic initiative that allows for rapid adoption and implementation of electronic case reporting for COVID–19 (https://www.cdc.gov/coronavirus/2019-ncov/hcp/electronic-case-reporting.html). As part of this initiative, CDC and its partners have developed an eCR Now FHIR® API to establish electronic case reporting capability in EHR systems. The initiative also supports an electronic case reporting infrastructure that is helping to advance interoperability. This infrastructure supports sending electronic case reports to a shared service platform, and not directly to a PHA, which means that any health care provider that has established an electronic case reporting connection also has a connection with every State PHA, many large local health departments and some territories. This promotes nationwide interoperability and increases the availability of data for patients who may be traveling or spending time away from their home State. For example, if a patient is a resident of one State but seeks care in another State, this infrastructure will automatically route the case report to
both states that would have jurisdiction over this report. This increases inter-jurisdictional reporting, allowing for more seamless case investigation at the national level. The interoperable infrastructure and the use of a standard data format also reduces the variability of case report forms across conditions and jurisdictions, streamlining reporting forms for EHR vendors and health care providers.

As a result of the CDC effort to scale up eCR Now for COVID–19, all 50 states, the District of Columbia, Puerto Rico and 11 large local jurisdictions have connected to the eCR Now shared services platform and are currently receiving electronic case reports, with more than 7,200 healthcare facilities on board and 7.1 million reports for COVID–19 received by PHAs as of March 8, 2021. The eCR infrastructure is designed to rapidly scale for PHEs, such as COVID–19, but it is also enabled to currently support data transmission for 99 reportable and notifiable conditions. While these are significant advancements, the piecemeal approach of encouraging adoption of these tools by individual health care providers has not been an effective or efficient means to quickly scale this effort nationally as has been needed for the COVID–19 PHE response.

We believe the uneven adoption of electronic case reporting creates a public health vulnerability. We are proposing to make the Electronic Case Reporting measure a required measure under the Public Health and Clinical Data Exchange objective of the Medicare Promoting Interoperability Program beginning with the EHR reporting period in CY 2022. We believe making this a required measure would accelerate development of electronic case reporting capabilities in EHR systems, reduce healthcare administrative burden of complying with State-mandated disease reporting requirements, provide regulatory clarity for EHR vendors, and improve the timeliness, completeness, and utility of case report data for PHAs. We believe that making the Electronic Case Reporting measure would be feasible and beneficial for eligible hospitals and CAHs. This change would encourage EHR vendors to make electronic case reporting available to their customers, which would make adoption of this capability relatively straightforward for eligible hospitals and CAHs. As described in the EHR Incentive Program-Stage 3 and Modifications to Meaningful Use in 2015 through 2017 final rule (80 FR 62888), for purposes of this measure, eligible hospitals and CAHs must use a health IT module certified to the “Transmission to public health agencies—electronic case reporting” certification criterion at 45 CFR 170.315(f)(5) which relates to how the health IT uses structured data within an EHR to trigger or indicate the generation of an electronic initial case report. Eligible hospitals and CAHs may then transmit the report in the manner specified by the case reporting requirements of the entity to which they are transmitting a report.

We believe that requiring the Electronic Case Reporting measure would provide certainty to EHR vendors and facilitate an organized and industry-wide rollout of electronic case reporting capabilities.

We are not proposing any changes to the description of the Electronic Case Reporting measure and the exclusions we established at 42 CFR 495.240[e][8][ii][C] will remain available.

(4) Electronic Reportable Laboratory Result Reporting Measure

State laws and regulations require laboratories to report certain diseases and conditions identified by testing to State and local PHAs. Electronic laboratory reporting (ELR) is the automated transmission of reports from laboratories to State and local PHAs. ELR produces faster and more complete information than manual reporting, reduces the burden of submission to PHAs, and eliminates opportunities for data entry error. ELR facilitates efficient case investigation, contact tracing, identification of hot spots, and other core public health functions. Because ELR requires essential fields, PHAs are less likely to request follow up information when receiving reports via ELR feeds, further reducing burden on laboratories.

Prior to the COVID–19 pandemic, more than 90% of laboratory reports sent to PHAs were submitted via ELR; the bulk of this reporting came from commercial laboratories. Hospital laboratories were less likely to utilize ELR data feeds relative to commercial laboratories, relying on other means to report results. The COVID–19 pandemic posed a tremendous challenge to the nation’s laboratory and testing infrastructure, and rates of ELR to PHAs declined as COVID–19 testing increased, a multitude of tests (for example, point-of-care tests) entered the market, and non-traditional testing sites (for example, drive thru testing sites) where ELR is not available were utilized.

Throughout the pandemic, the subset of hospital laboratories, while still a relatively small portion of overall testing volume, continued to lag in ELR implementation relative to larger commercial and clinical laboratories. A CDC-Association of Public Health Laboratories (APHL) collaboration has enabled the reporting of COVID–19 laboratory data through the APHL Informatics Messaging Services (AIMS) platform. Using AIMS, PHAs can submit essential data to CDC for detailed analysis, visualization, and surveillance, providing a national snapshot of the testing landscape and informing Federal response efforts. Section 18115 of the Coronavirus Aid, Relief, and Economic Security (CARES) Act and HHS implementing guidance require all laboratories conducting testing for SARS-CoV-2 to report results to a State or local public health agency (which then report these data to CDC). The HHS implementing guidance allows for reporting using multiple potential methods, including ELR. All State PHAs are capable of and are receiving ELR for notifiable conditions.

We are proposing to make the Electronic Reportable Laboratory Result Reporting measure a required measure under the Public Health and Clinical Data Exchange objective of the Medicare Promoting Interoperability Program beginning with the EHR reporting period in CY 2022. We believe that making this measure required would spur hospital laboratories to adopt this capability, increase the timeliness and completeness of laboratory reporting to PHAs, strengthen the effectiveness of prevention and control measures, reduce the burden of reporting by laboratory staff, and aid in laboratory compliance with the requirements of section 18115 of the CARES Act as well as future PHEs. Requiring the Electronic Reportable Laboratory Result Reporting measure would incentivize the minority of hospital laboratories that have not adopted ELR to upgrade to this essential capability. With the availability of the APHL AIMS platform, HEIs, and other mechanisms, there is a diversity of options for eligible hospitals and CAHs to establish an ELR channel with a PHA to feasibly implement this requirement. In addition, CDC-provided ELR technical assistance is also available, further reducing implementation barriers.

We are not proposing to change the description of the Electronic Reportable Laboratory Result Reporting measure
and the exclusions that we established at 42 CFR 495.24(e)(8)(iii)(F) will remain available.

7. Proposed Scoring of the Public Health and Clinical Data Exchange Objective

We are proposing that, beginning with the EHR reporting period in CY 2022, an eligible hospital or CAH would receive 10 points for the Public Health and Clinical Data Exchange objective if they report a “yes” response for each of the following 4 required measures: Syndromic Surveillance Reporting; Immunization Registry Reporting; Electronic Case Reporting; and Electronic Reportable Laboratory Result Reporting. In the event an eligible hospital or CAH is able to claim an exclusion for three or fewer of these four required measures, we are proposing they would receive 10 points for the objective if they report a “yes” response for one or more of these measures and claim applicable exclusions for which they qualify for the remaining measures. If the eligible hospital or CAH fails to report on any one of the four measures required for this objective or reports a “no” response for one or more of these measures, we are proposing the eligible hospital or CAH would receive a score of zero for the Public Health and Clinical Data Exchange objective, and a total score of zero for the Medicare Promoting Interoperability Program. If an eligible hospital or CAH claims applicable exclusions for which they qualify for all four required measures, we propose to redistribute the points associated with the objective to the Provider to Patient Exchange objective. We are proposing corresponding changes to 42 CFR 495.24(e)(8)(ii) and (iii) to reflect these proposals.

We are proposing to retain the Public Health Registry Reporting and Clinical Data Registry Reporting measures and to make them optional and available for bonus points beginning with the EHR reporting period in CY 2022. We are proposing an eligible hospital or CAH may earn a maximum of 5 bonus points if they report a “yes” response for either the Public Health Registry Reporting measure OR the Clinical Data Registry Reporting measure. We are proposing to further modify 42 CFR 495.24(e)(8)(ii) to add: Eligible hospitals and CAHs could receive a bonus of 5 points for this objective if they report the measures specified under 42 CFR 495.24(e)(8)(iii)D or (E).

In connection with our proposal to make these measures optional, we are proposing the three exclusions that we established for each measure would no longer be available beginning with the EHR reporting period in 2022. For the Public Health Registry Reporting measure, we are proposing to revise 42 CFR 495.24(e)(8)(iii)D, and for the Clinical Data Registry Reporting measure we are proposing to revise 42 CFR 495.24(e)(8)(iii)E.

8. SAFER Guides

a. Background

ONC developed and released the Safety Assurance Factors for EHR Resilience Guides (SAFER Guides) in 2014, and later updated them in 2016. This series of nine user guides support hospitals’ ability to address EHR safety.\textsuperscript{1444} Collectively, the SAFER Guides help healthcare organizations to conduct self-assessments to optimize the safety and safe use of EHRs in the three areas listed in this rule, in Table IX.F.-01. The SAFER Guides were intended to be utilized by EHR users, developers, patient safety organizations, and those who are concerned with optimizing the safe use of Health IT. By completing a self-assessment using the SAFER Guides, providers can help to develop a “culture of safety” within their organizations and ensure they are responsible operators of technology tools, including certified health IT products, which they utilize in the delivery of care. The SAFER Guides are based on the best evidence available at the time of publication, including a literature review, expert opinion, and field-testing at a wide range of healthcare organizations, from small ambulatory care practices to large health systems.

In the FY 2019 IPPS/LTCH final rule (83 FR 41663), commenters expressed concern with having the ability to maintain continuous electronic connectivity, and identified a need to account for planned and unplanned system outages or downtime. In response, we referred readers to the SAFER Guides, to utilize and incorporate as a part of their emergency planning processes. In the case of system disruption, failure, or natural disaster, the SAFER Guides provide recommended safety practices during planned or unplanned EHR unavailability, where end users are unable to access all or part of their EHR. Also included are back-up procedures to prevent the potential loss of clinical and administrative data, and how to utilize paper charting during such downtime (83 FR 41663). We believe that conducting annual self-assessments based on the SAFER Guides’ recommendations would satisfy stakeholder feedback received through the Annual Call for Measures and through public comment (83 FR 41663), supporting alternative and consistent safety practices for EHR users. We also believe requiring eligible hospitals and CAHs to conduct an annual self-assessment using the SAFER Guides would support the goals of improved EHR use and health care quality, as described in section 1886(n)(3)(A) of the Act.

\textsuperscript{1444} https://www.healthit.gov/topic/safety/safer-guides.
Table IX.F.-01. The SAFER Guides

| Foundational Guides | - High Priority Practices  
|                     | - Organizational Responsibilities |
| Infrastructure Guides | - Contingency Planning  
|                       | - System Configuration  
|                       | - System Interfaces |
| Clinical Process Guides | - Patient Identification  
|                         | - Computerized Provider Order Entry with Decision Support  
|                         | - Test Results Reporting with Follow-Up  
|                         | - Clinician Communication |

b. Proposed New SAFER Guides Measure

We are proposing to add a new SAFER Guides measure to the Protect Patient Health Information objective beginning with the CY 2022 EHR reporting period. For this measure, we are proposing that an eligible hospital or CAH must attest to having conducted an annual self-assessment of all nine SAFER Guides (available at https://www.healthit.gov/topic/safety/safer-guides), at any point during the calendar year in which the EHR reporting period occurs, with one “yes/no” attestation statement accounting for a complete self-assessment using all nine guides. We propose that in CY 2022, this measure would be required, but it would not be scored, and that reporting “yes” or “no” will not affect the total score for the Medicare Promoting Interoperability Program. We are also proposing to add corresponding regulatory text for this measure at §495.24(e)(4)(ii) and (iv).

In order to complete a “self-assessment” of the SAFER Guides we would expect that each eligible hospital or CAH would complete the checklist of recommended practices included at the beginning of each SAFER Guide. Following the checklist, a practice worksheet provides the rationale for, and examples of, how to implement each recommended practice, likely sources of input into the assessment of each practice, and fillable fields to record follow-up actions.

We understand that every organization faces unique circumstances, and will implement a particular safety practice differently. As a result, some of the specific examples in the SAFER Guides for recommended practices may not be applicable to every organization. We note that a “self-assessment” does not require an organization to confirm that it has implemented “fully in all areas” each practice described in a particular SAFER guide, nor will an organization be scored on how many of the practices the organization has fully implemented. Rather, the intent of this proposed requirement is for eligible hospitals and CAHs to regularly assess their progress and status on important facets of patient safety.

The recommended practices in the SAFER Guides are intended to be useful for all EHR users. However, we recognize that the individuals responsible for the proposed annual self-assessment may vary across organizations. An optimal team for completing an annual review of the SAFER Guides might include representatives from an eligible hospital or CAHs clinical leadership, nursing staff, pharmacy representatives, and the staff responsible for implementing and maintaining both internal technology systems as well as data connections with external partners, such as an HIE.

Regarding the frequency of self-assessments using the SAFER Guides, we are proposing that a eligible hospital or CAH must attest to completing their self-assessment using the SAFER Guides on an annual basis, following an initial completion of the self-assessment (some organizations may have already completed a self-assessment using the SAFER Guides prior to implementation of this requirement, if finalized). We would expect providers to revisit this assessment to determine whether any changes have occurred for their organization. We believe that requiring eligible hospitals and CAHs to periodically review this self-assessment as proposed would support a stronger culture of change management within organizations participating in the Medicare Promoting Interoperability Program, and would assist organizations in actively understanding and addressing potential safety vulnerabilities, which may significantly impact an organization’s safety posture.

We recognize that organizations may be at different stages in their progress towards assessing patient safety vulnerabilities and that hospitals vary in the resources that they could devote to annual self-assessment using the SAFER Guides. Gathering this information may be time consuming for small or rural hospitals that have contracted out some implementation services and may not have expertise available on staff to complete a full self-assessment using the SAFER Guides. For eligible hospitals and CAHs with less experience in these areas, we note that there are a number of resources available, which may be able to assist with completing a self-assessment.

We are inviting public comment on these proposals.

9. Actions To Limit or Restrict the Compatibility or Interoperability of CEHRT

a. Background

Section 106(b)(2) of the Medicare Access and CHIP Reauthorization Act of 2015 (MACRA) includes the heading “Preventing Blocking The Sharing Of Information.” Section 106(b)(2)(B) amended section 1886(n)(3)(A)(ii) of the Act for eligible hospitals and, by extension, section 1814(l)(3) of the Act for CAHs to require that a hospital demonstrates (through a process specified by the Secretary, such as the use of an attestation) that the hospital has not knowingly and willfully taken action (such as to disable functionality) to limit or restrict the compatibility or interoperability of the certified EHR technology. To implement these provisions, we established and codified at 42 CFR 495.40(b)(2)(i)(I) attestation requirements for the Promoting Interoperability Program to support the “prevention of information blocking,” which consist of three statements containing specific representations about a health care provider’s implementation and use of CEHRT. For further discussion on these
requirements, we refer readers to the CY 2017 Quality Payment Program final rule (81 FR 77028 through 77035) and the Interoperability and patient access final rule (85 FR 25578 through 25580). The attestation statements finalized for eligible hospitals and CAHs at 42 CFR 495.40(b)(2)(i)(I) are:

- **Statement 1:** Did not knowingly and willfully take action (such as to disable functionality) to limit or restrict the compatibility or interoperability of certified EHR technology.

- **Statement 2:** Implemented technologies, standards, policies, practices, and agreements reasonably calculated to ensure, to the greatest extent practicable and permitted by law, that the certified EHR technology was, at all relevant times: (1) Connected in accordance with applicable law; (2) compliant with all standards applicable to the exchange of information, including the standards, implementation specifications, and certification criteria adopted at 45 CFR part 170; (3) Implemented in a manner that allowed for timely access by patients to their electronic health information; and (4) Implemented in a manner that allowed for the timely, secure, and trusted bi-directional exchange of structured electronic health information with other health care providers (as defined by 42 U.S.C. 300jj(3)), including unaffiliated providers, and with disparate certified EHR technology and vendors.

- **Statement 3:** Responded in good faith and in a timely manner to requests to retrieve or exchange electronic health information, including from patients, health care providers (as defined by 42 U.S.C. 300jj(3)), and other persons, regardless of the requestor’s affiliation or technology vendor.

Participants in the Medicare Promoting Interoperability Program that are required to attest to the three statements under 42 CFR 495.40(b)(2)(i)(I) are also subject to public reporting as established in the Patient Access and Interoperability final rule (85 FR 25578 through 25580). Under this policy, we will post information on a CMS website available to the public for eligible hospitals and CAHs who have attested “no” to any of these three statements. Section 4004 of the 21st Century Cures Act added section 3022 to the Public Health Service Act (PHSA) (the “PHSA information blocking provision”), which describes practices by health care providers, health IT developers, and health information exchanges and networking information blocking, and provides for civil monetary penalties and other disincentives for those who engage in information blocking. In the ONC 21st Century Cures Act final rule published in the Federal Register on May 1, 2020, ONC finalized a definition of information blocking and identified reasonable and necessary activities (“exceptions”) that do not constitute information blocking (85 FR 25642). For health care providers (as defined in 42 U.S.C. 300jj) “information blocking means a practice that (1) Except as required by law or covered by an exception [. . .], is likely to interfere with access, exchange, or use of electronic health information; and if conducted by a health care provider, such provider knows that such practice is unreasonable and is likely to interfere with, prevent, or materially discourage access, exchange, or use of electronic health information” (45 CFR 171.103).

The Cures Act provides for civil monetary penalties for any individual or entity that is a developer, network, or exchange that has committed information blocking (see section 3022(b)(I)(A) of the PHSA). Regarding health care providers, the Cures Act provides that “Any [health care provider] determined by the [HHS] Inspector General to have committed information blocking shall be referred to the appropriate agency to be subject to appropriate disincentives using authorities under applicable Federal law, as the Secretary sets forth through notice and comment rulemaking” (section 3022(b)(2)(B) of the PHSA). For more information about the information blocking rule finalized in the ONC 21st Century Cures Act final rule, see https://www.healthit.gov/curesrule/final-rule-policy/information-blocking.

b. Proposed Changes to the Attestation Statements

Although there could be some degree of overlap between conduct described in the attestation statements under 42 CFR 495.40(b)(2)(i)(I) and (J) to no longer require statements 2 and 3. We believe that the similarities between these three statements under 42 CFR part 171 are much broader than those described in the attestation statements. We discuss specific instances of potential confusion in this proposed rule.

Statement 2 requires attestation to a series of statements regarding the use of certified technology and a designated manner for implementing certified technology. For instance, attestations to the implementation of technology compliant with the standards for certified health IT at 45 CFR part 170, and use of functionality to support health information exchange with other providers. However, as previously noted, the definition of information blocking finalized in the ONC 21st Century Cures Act final rule is not specific to, nor limited to, the use of certified technology which is compliant with certain standards or the use of certain functionality. Under the ONC 21st Century Cures Act final rule, a health care provider may still be determined to have engaged in practices likely to interfere with access, exchange, or use of electronic health information (information blocking) regardless of whether they are using certified technology.

Regarding statement 3, we stated in the 2017 QPP final rule that “technical, legal, and other practical constraints may prevent a health care provider from responding to some requests to access, exchange, or use electronic health information in a health care provider’s certified EHR technology” (81 FR 77033). Subsequently, in the ONC 21st Century Cures Act final rule, ONC established a set of reasonable and necessary activities that are not considered information blocking when responding to a request for EHI. The reasonable and necessary activities established under the ONC 21st Century Cures Act final rule now provide more specific direction to providers when responding to a request for EHI than the general “technical, legal, and other practical constraints” which we
described in the QPP 2017 final rule with regards to statement 3. Accordingly, we believe that continuing to require statement 3 may introduce confusion for those health care providers who are obligated to comply with the regulations finalized in the ONC 21st Century Cures Act final rule when responding to a request for EHI.

In order to distinguish the attestation required by section 106(b)(2)(B) of MACRA from information blocking under section 3022 of the PHSA, we are proposing to modify the heading of the regulation text at 42 CFR 495.40(b)(2)(i)(l) and the definition of “meaningful EHR user” under 495.4 from “Support for health information exchange and the prevention of information blocking” to “Actions to limit or restrict the compatibility or interoperability of CEHRT,” which reflects the language used in section 106(b)(2)(B) of MACRA.

We invite public comment on our proposals.

For ease of reference, Table IX.F.-02 lists the objectives and measures for the Medicare Promoting Interoperability Program for the EHR reporting period in CY 2022 as revised to reflect the proposals made in this proposed rule. Table IX.F.-03 lists the 2015 Edition certification criteria required to meet the objectives and measures.
### TABLE IX.F.-02: Proposed Objectives and Measures for the Medicare Promoting Interoperability Program in 2022

<table>
<thead>
<tr>
<th>Objective</th>
<th>Measure</th>
<th>Numerator</th>
<th>Denominator</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electronic Prescribing</strong></td>
<td>e-Prescribing: For at least one hospital discharge, medication orders for permissible prescriptions (for new and changed prescriptions) are queried for a drug formulary and transmitted electronically using certified electronic health record technology (CEHRT).</td>
<td>The number of prescriptions in the denominator generated, queried for a drug formulary, and transmitted electronically.</td>
<td>The number of new or changed prescriptions written for drugs requiring a prescription in order to be dispensed other than controlled substances for patients discharged during the EHR reporting period.</td>
<td>Any eligible hospital or CAH that does not have an internal pharmacy that can accept electronic prescriptions and there are no pharmacies that accept electronic prescriptions within 10 miles at the start of their electronic health record (EHR) reporting period.</td>
</tr>
<tr>
<td><strong>Electronic Prescribing</strong></td>
<td>Query of Prescription Drug Monitoring Program (PDMP) (bonus): For at least one Schedule II opioid electronically prescribed using certified electronic health record technology (CEHRT) during the electronic health record (EHR) reporting period, the eligible hospital or CAH uses data from CEHRT to conduct a query of a PDMP for prescription drug history, except where prohibited and in accordance with applicable law.</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Health Information Exchange</strong></td>
<td>Support Electronic Referral Loops by Sending Health Information: For at least one transition of care or referral, the eligible hospital or CAH that transitions or refers</td>
<td>Number of transitions of care and referrals in the denominator where a summary of care record was created using CEHRT and exchanged electronically.</td>
<td>Number of transitions of care and referrals during the electronic health record (EHR) reporting period for which the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) was the transitioning</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Measure</td>
<td>Numerator</td>
<td>Denominator</td>
<td>Exclusion</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Health Information Exchange</td>
<td>Support Electronic Referral Loops by Receiving and Reconciling Health Information: For at least one electronic summary of care record received for patient encounters during the electronic health record (EHR) reporting period for which an eligible hospital or CAH was the reconciling party of a transition of care or referral, or for patient encounters during the EHR reporting period in which the eligible hospital or CAH has never before encountered the patient, the eligible hospital or CAH conducts clinical information reconciliation for medication, medication allergy, and current problem list.</td>
<td>Number of electronic summary of care records in the denominator for which clinical information reconciliation is completed using CEHRT for the following three clinical information sets: (1) Medication – Review of the patient’s medication, including the name, dosage, frequency, and route of each medication; (2) Medication Allergy – Review of the patient’s known medication allergies; and (3) Current Problem List – Review of the patient’s current and active diagnoses.</td>
<td>Number of electronic summary of care records received using certified electronic health record technology (CEHRT) for patient encounters during the EHR reporting period for which an eligible hospital or CAH was the reconciling party of a transition of care or referral, and for patient encounters during the EHR reporting period in which the eligible hospital or CAH has never before encountered the patient.</td>
<td>N/A</td>
</tr>
<tr>
<td>Health Engagement in Bi-</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Measure</td>
<td>Numerator</td>
<td>Denominator</td>
<td>Exclusion</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Information Exchange</td>
<td>Directional Exchange Through Health Information Exchange (HIE) (Alternative to two previous HIE measure)</td>
<td>The number of patients in the denominator (or patient authorized representative) who are provided timely access to health information to view online, download, and transmit to a third party and to access using an application of their choice that is configured to meet the technical specifications of the API in the eligible hospitals or CAH’s CEHRT.</td>
<td>The number of unique patients discharged from an eligible hospital or CAH inpatient or emergency department (POS 21 or 23) during the EHR reporting period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Provider to Patient Exchange</td>
<td>Provide Patients Electronic Access to Their Health Information: For at least one unique patient discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23) the patient (or patient-authorized representative) is provided timely access to view online, download, and transmit his or her health information; the eligible hospital or CAH ensures the patient’s health information is available for the patient (or patient-authorized representative) to access using any application of their choice that is configured to meet the technical specifications of the application programming interfaces (API) in the eligible hospitals or CAHs certified electronic health record technology (CEHRT).</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Objective</td>
<td>Measure</td>
<td>Numerator</td>
<td>Denominator</td>
<td>Exclusion</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------------------------------------------</td>
<td>-------------------------------</td>
<td>--------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Immunization Registry Reporting: The eligible</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>Any eligible hospital or CAH meeting one or more of the following criteria may be excluded from the immunization registry reporting measure if the eligible hospital or CAH: (1) Does not administer any immunizations to any of the populations for which data is collected by their jurisdiction’s immunization registry or IIS during the electronic health record (EHR) reporting period; (2) Operates in a jurisdiction for which no immunization registry or IIS is capable of accepting the specific standards required to meet the certified electronic health record technology (CEHRT) definition at the start of the EHR reporting period; or (3) Operates in a jurisdiction where no immunization registry or IIS has declared readiness to receive immunization data as of six months prior to the start of the EHR reporting period.</td>
</tr>
<tr>
<td></td>
<td>hospital or CAH is in active engagement with a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public health agency (PHA) to submit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>immunization data and receive immunization</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>forecasts and histories from the public health</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>immunization registry/immunization information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>system (IIS).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Syndromic Surveillance Reporting: The eligible</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>Any eligible hospital or CAH meeting one or more of the following criteria may be excluded from the syndromic surveillance reporting measure if the eligible hospital or CAH: (1) Does not have an emergency department; (2) Operates in a jurisdiction for which no PHA is capable of receiving electronic syndromic surveillance data from eligible hospitals or CAHs in the specific standards required to meet the certified electronic health record technology (CEHRT) definition at the start of the electronic health record (EHR) reporting period; or (3) Operates in a jurisdiction where no PHA has declared readiness to receive syndromic surveillance data from eligible hospitals or CAHs as of six months prior to the start of the EHR reporting period.</td>
</tr>
<tr>
<td></td>
<td>hospital or CAH is in active engagement with a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public health agency to submit syndromic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>surveillance data from an emergency department.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Objective</td>
<td>Measure</td>
<td>Numerator</td>
<td>Denominator</td>
<td>Exclusion</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------</td>
<td>------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Electronic Case Reporting: The eligible hospital or CAH is in active engagement with a public health agency (PHA) to submit case reporting of reportable conditions.</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>Any eligible hospital or CAH meeting one or more of the following criteria may be excluded from the case reporting measure if the eligible hospital or CAH: (1) Does not treat or diagnose any reportable diseases for which data is collected by their jurisdiction’s reportable disease system during the electronic health record (EHR) reporting period; (2) Operates in a jurisdiction for which no PHA is capable of receiving electronic case reporting data in the specific standards required to meet the certified electronic health record technology (CEHRT) definition at the start of the EHR reporting period; or (3) Operates in a jurisdiction where no PHS has declared readiness to receive electronic case reporting data as of six months prior to the start of the EHR reporting period.</td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Electronic Reportable Laboratory (ELR) Result Reporting: The eligible hospital or CAH is in active engagement with a public health agency (PHA) to submit ELR results.</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>Any eligible hospital or CAH meeting one or more of the following criteria may be excluded from the case reporting measure if the eligible hospital or CAH: (1) Does not perform or order laboratory tests that are reportable in their jurisdiction during the electronic health record (EHR) reporting period; (2) Operates in a jurisdiction for which no PHA is capable of accepting the specific ELR standards required to meet the certified electronic health record technology (CEHRT) definition at the start of the EHR reporting period; or (3) Operates in a jurisdiction where no PHS has declared readiness to receive ELR results from an eligible hospital or CAH as of six months prior to the start of the EHR reporting period.</td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Public Health Registry Reporting: The eligible hospital or CAH is in active</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>none</td>
</tr>
<tr>
<td>Objective</td>
<td>Measure</td>
<td>Numerator</td>
<td>Denominator</td>
<td>Exclusion</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------</td>
<td>-----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Clinical Data Registry Reporting: The eligible hospital or CAH is in active engagement to submit data to a clinical data registry (CDR).</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>none</td>
</tr>
<tr>
<td>Protect Patient Health Information</td>
<td>Security Risk Assessment</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N)</td>
<td>none</td>
</tr>
<tr>
<td>Protect Patient Health Information</td>
<td>Safety Assurance Factors for EHR Resilience Guides (SAFER Guides)</td>
<td>N/A (measure is Y/N)</td>
<td>N/A (measure is Y/N))</td>
<td>none</td>
</tr>
</tbody>
</table>

**TABLE IX.F.-03: Medicare Promoting Interoperability Program Objectives and Measures, and 2015 Edition Certification Criteria**

<table>
<thead>
<tr>
<th>Objective</th>
<th>Measure</th>
<th>2015 Edition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Prescribing</td>
<td>e-Prescribing</td>
<td>§ 170.315(b)(3) Electronic prescribing</td>
</tr>
<tr>
<td></td>
<td>Bonus: Query of PDMP</td>
<td>§ 170.315(b)(3) Electronic prescribing</td>
</tr>
<tr>
<td>Health Information Exchange</td>
<td>Support electronic referral loops by sending health information</td>
<td>§ 170.315(b)(1) Transitions of care</td>
</tr>
<tr>
<td></td>
<td>Support electronic referral loops by receiving and reconciling health information</td>
<td>§ 170.315(b)(1) Transitions of care § 170.315(b)(2) Clinical information reconciliation and incorporation</td>
</tr>
<tr>
<td>Health Information Exchange (HIE) Bi-Directional Exchange</td>
<td>Examples of certified health IT capabilities to support the actions of this measure may include but are not limited to technology certified to the following criteria:</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>§ 170.315(b)(1) Transitions of care</td>
<td>§ 170.315(b)(2) Clinical information reconciliation and incorporation</td>
<td></td>
</tr>
<tr>
<td>§ 170.315(g)(7) Application access — patient selection</td>
<td>§ 170.315(g)(8) Application access — data category request</td>
<td></td>
</tr>
<tr>
<td>§ 170.315(g)(9) Application access — all data request</td>
<td>§ 170.315(g)(10) Application access — standardized API for patient and population services</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Provider to Patient Exchange</th>
<th>Provide patients electronic access to their health information</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 170.315(e)(1) View, download, and transmit to 3rd party patient information</td>
<td>§ 170.315(g)(7) Application access — patient selection</td>
</tr>
<tr>
<td>§ 170.315(g)(8) Application access — data category request</td>
<td>§ 170.315(g)(9) Application access — all data request</td>
</tr>
<tr>
<td>§ 170.315(g)(10) Application access — standardized API for patient and population services</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Public Health and Clinical Data Exchange</th>
<th>Immunization registry reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 170.315(f)(1) Transmission to immunization registries</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Public Health and Clinical Data Exchange</th>
<th>Syndromic surveillance reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 170.315(f)(2) Transmission to public health agencies — syndromic surveillance</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Public Health and Clinical Data Exchange</th>
<th>Electronic case reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 170.315(f)(5) Transmission to public health agencies — electronic case reporting</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Public Health and Clinical Data Exchange</th>
<th>Public health registry reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 170.315(f)(6) Transmission to public health agencies — antimicrobial use and resistance reporting</td>
<td>§ 170.315(f)(7) Transmission to public health agencies — health care surveys</td>
</tr>
<tr>
<td>Clinical data registry reporting</td>
<td>No 2015 health IT certification criteria at this time.</td>
</tr>
<tr>
<td>Electronic reportable laboratory result reporting</td>
<td>§ 170.315(f)(3) Transmission to public health agencies — reportable laboratory tests and value/results</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electronic Clinical Quality Measures (eCQMs)</th>
<th>eCQMs for eligible professionals, and eligible hospitals and CAHs</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 170.315(c)(1)</td>
<td>§ 170.315(c)(2)</td>
</tr>
<tr>
<td>§ 170.315(c)(3)(i) and (ii)</td>
<td>§ 170.315(c)(4) (optional)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protect Patient Health Information</th>
<th>Security Risk Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 164.308 (a)(1)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protect Patient Health Information</th>
<th>Safety Assurance Factors for EHR Resilience Guides (SAFER Guides)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>
10. Proposed Changes to the Scoring Methodology for the EHR Reporting Period in CY 2022

a. Proposed Performance-Based Scoring Threshold Increase

In the FY 2019 IPPS/LTCH PPS final rule (83 FR 41636 through 41645), we adopted a new performance-based scoring methodology for eligible hospitals and CAHs attesting under the Medicare Promoting Interoperability Program which included a minimum scoring threshold which eligible hospitals and CAHs must meet in order to satisfy the requirement to report on the objectives and measures of meaningful use under 42 CFR 495.24. We established at 42 CFR 495.24(e)(1)(i) that eligible hospitals and CAHs must earn a total score of at least 50 points on the objectives and measures to be considered a meaningful EHR user.

The Medicare Promoting Interoperability Program’s performance results from CY 2019 (the first full year of programmatic data demonstrating the new performance-based scoring methodology) revealed that 3,776 of 3,828 participating eligible hospitals and CAHs that reported to the program successfully met the minimum threshold score of 50 points.

For CY 2022 and subsequent years, we are proposing to increase the minimum scoring threshold from 50 points to 60 points, and proposing corresponding changes to the regulation text at 42 CFR 495.24(e)(1)(i)(C). Given the widespread success of participating hospitals in CY 2019, we believe that such program results signify the need for raising the minimum score for CY 2022. We note that eligible hospitals and CAHs will have gained two more years of experience in the Medicare Promoting Interoperability Program (CYs 2020 and 2021) at the 50 point minimum score threshold to improve performance. This increase from 50 points to 60 points represents our intent to heighten the required standards for the Medicare Promoting Interoperability Program’s performance levels and encourage higher levels of performance through the advanced usage of CEHRT in order to further incentivize eligible hospitals and CAHs to improve interoperability and health information exchange.

We seek comments on our proposal to increase the minimum scoring threshold from 50 to 60 points.

b. Performance-Based Scoring Methodology Table Updates

The following table reflects the objectives and measures for CY 2022 if the proposed changes discussed in this section are finalized, including the optional Query of PDMP measure worth 10 bonus points, the adoption of a new alternative Health Information Exchange Bi-Directional Exchange measure, the adoption of a SAFER Guides measure, and modified requirements for the Public Health and Clinical Data Exchange objective.

<table>
<thead>
<tr>
<th>Objective</th>
<th>Measure</th>
<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Prescribing</td>
<td>e-Prescribing</td>
<td>10 points</td>
</tr>
<tr>
<td></td>
<td>Bonus: Query of PDMP</td>
<td>10 points (bonus)*</td>
</tr>
<tr>
<td>Health Information Exchange</td>
<td>Support Electronic Referral Loops by Sending Health Information</td>
<td>20 points</td>
</tr>
<tr>
<td></td>
<td>Support Electronic Referral Loops by Receiving and Reconciling Health Information</td>
<td>20 points</td>
</tr>
<tr>
<td></td>
<td>Health Information Exchange Bi-Directional Exchange*</td>
<td>40 points*</td>
</tr>
<tr>
<td>Provider to Patient Exchange</td>
<td>Provide Patients Electronic Access to Their Health Information*</td>
<td>40 points</td>
</tr>
<tr>
<td>Public Health and Clinical Data Exchange</td>
<td>Report the following 4 measures:*</td>
<td>10 points</td>
</tr>
<tr>
<td></td>
<td>• Syndromic Surveillance Reporting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Immunization Registry Reporting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Electronic Case Reporting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Electronic Reportable Laboratory Result Reporting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Report one of the following measures:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Public Health Registry Reporting</td>
<td>5 points (bonus)*</td>
</tr>
<tr>
<td></td>
<td>• Clinical Data Registry Reporting</td>
<td></td>
</tr>
</tbody>
</table>

Notes: The Security Risk Analysis measure, SAFER Guides measure, and attestations required by section 106(b)(2)(B) of MACRA are required, but will not be scored. eCQM measures are required, but will not be scored.

*Signifies a proposal made in this FY 2022 IPPS/LTCH proposed rule.
11. Clinical Quality Measurement for Eligible Hospitals and CAHs Participating in the Medicare Promoting Interoperability Program

a. Proposed Changes to Clinical Quality Measures in Alignment With the Hospital IQR Program

(1) Background

Under sections 1814(l)(3)(A) and 1886(n)(3)(A) of the Act and the definition of “meaningful EHR user” under 42 CFR 495.4, eligible hospitals and CAHs must report on clinical quality measures (referred to as CQMs or eCQMs) selected by CMS using CEHRT, as part of being a meaningful EHR user under the Medicare Promoting Interoperability Program.

The following table lists previously finalized eCQMs available for eligible hospitals and CAHs to report under the Medicare Promoting Interoperability Program (84 FR 42597 through 42599) for the reporting period in CY 2021 and in subsequent years. The table includes the Safe Use of Opioids—Concurrent Prescribing measure (NQF #3316e) which we finalized as mandatory for reporting beginning with CY 2022 (84 FR 42598 through 42600).

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-2</td>
<td>Admit Decision Time to ED Departure Time for Admitted Patients</td>
<td>0497</td>
</tr>
<tr>
<td>PC-05</td>
<td>Exclusive Breast Milk Feeding</td>
<td>0480</td>
</tr>
<tr>
<td>STK-02</td>
<td>Discharged on Antithrombotic Therapy</td>
<td>0435</td>
</tr>
<tr>
<td>STK-03</td>
<td>Anticoagulation Therapy for Atrial Fibrillation/Flutter</td>
<td>0436</td>
</tr>
<tr>
<td>STK-05</td>
<td>Antithrombotic Therapy by the End of Hospital Day Two</td>
<td>0438</td>
</tr>
<tr>
<td>STK-06</td>
<td>Discharged on Statin Medication</td>
<td>0439</td>
</tr>
<tr>
<td>VTE-1</td>
<td>Venous Thromboembolism Prophylaxis</td>
<td>0371</td>
</tr>
<tr>
<td>VTE-2</td>
<td>Intensive Care Unit Venous Thromboembolism Prophylaxis</td>
<td>0372</td>
</tr>
<tr>
<td>Safe Use of Opioids</td>
<td>Safe Use of Opioids – Concurrent Prescribing</td>
<td>3316e</td>
</tr>
</tbody>
</table>

(2) Proposed eCQM Removals

As we discuss in the Hospital IQR Program section of this proposed rule, we are proposing to remove four eCQMs from the Hospital IQR Program’s measure set effective for the CY 2024 reporting period/FY 2026 payment determination. Specifically, we are proposing to remove:

- STK–03 (Anticoagulation Therapy for Atrial Fibrillation/Flutter),
- STK–06 (Discharged on Statin Medication),
- PC–05 (Exclusive Breast Milk Feeding), and
- ED–2 (Admit Decision Time to ED Departure Time for Admitted Patients).

We refer readers to section IX.C. of the preamble of this proposed rule for additional discussion of the rationales for these proposed removals from the Hospital IQR Program.

We continue to believe that aligning the CQM requirements that we adopt in the Medicare Promoting Interoperability Program with the Hospital IQR Program’s eCQM requirements benefits hospitals that are working to comply with each program’s requirements. Aligning the requirements and measure sets across programs promotes efficiency and harmonizes with our goal of applying a parsimonious set of the most meaningful measures available to track patient outcomes and impact. We believe that maintaining alignment between the Hospital IQR Program and the Medicare Promoting Interoperability Program streamlines our approach to data collection, calculation, and reporting using EHRs. We further believe that this streamlined approach allows us to leverage clinical and patient-centered information for measurement, improvement, and learning.

To maintain this alignment between the Hospital IQR Program and Medicare Promoting Interoperability Program beginning with the reporting period in CY 2024.

We welcome public comments on these proposed eCQM removals.

(3) Proposed eCQM Adoptions

As we have stated previously in rulemaking (82 FR 38479), we plan to continue to align the CQM reporting requirements for the Promoting Interoperability Program with similar requirements under the Hospital IQR Program. Further, as we discuss in section IX.C of the preamble of this proposed rule, we are proposing to adopt two new eCQMs in the Hospital IQR Program beginning with the CY 2023 reporting period/FY 2025 payment determination:

- Hospital Harm—Severe Hypoglycemia (NQF #3503e), and
- Hospital Harm—Severe Hyperglycemia (NQF #3533e).

We refer readers to section IX.C of the preamble of this proposed rule for additional discussion of the technical details associated with these measures.
their data sources, calculations, cohorts, and risk adjustment. As previously discussed, with respect to proposed eCQM removals, we continue to believe that adopting aligned requirements between the Hospital IQR and Medicare Promoting Interoperability Program is beneficial to participating hospitals. To maintain this alignment and to support hospitals’ ability to choose amongst a consistent pool of CQMs, as well as the clinical importance of these measures as discussed in section IX.C. of the preamble to this proposed, we propose to adopt the Severe Hypoglycemia and Severe Hyperglycemia CQMs for the Medicare Promoting Interoperability Program beginning with the reporting period in CY 2023.

We welcome public comments on these proposed eCQM adoptions.

Table IX.F-06: CQMs for Eligible Hospitals and CAHs for CY 2022

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-2</td>
<td>Admit Decision Time to ED Departure Time for Admitted Patients</td>
<td>0497</td>
</tr>
<tr>
<td>PC-05</td>
<td>Exclusive Breast Milk Feeding</td>
<td>0480</td>
</tr>
<tr>
<td>STK-02</td>
<td>Discharged on Antithrombotic Therapy</td>
<td>0435</td>
</tr>
<tr>
<td>STK-03</td>
<td>Anticoagulation Therapy for Atrial Fibrillation/Flutter</td>
<td>0436</td>
</tr>
<tr>
<td>STK-05</td>
<td>Antithrombotic Therapy by the End of Hospital Day Two</td>
<td>0438</td>
</tr>
<tr>
<td>STK-06</td>
<td>Discharged on Statin Medication</td>
<td>0439</td>
</tr>
<tr>
<td>VTE-1</td>
<td>Venous Thromboembolism Prophylaxis</td>
<td>0371</td>
</tr>
<tr>
<td>VTE-2</td>
<td>Intensive Care Unit Venous Thromboembolism Prophylaxis</td>
<td>0372</td>
</tr>
<tr>
<td>Safe Use of Opioids</td>
<td>Safe Use of Opioids – Concurrent Prescribing</td>
<td>3316e</td>
</tr>
</tbody>
</table>

Table IX.F.-07: CQMs for Eligible Hospitals and CAHs for CY 2023

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-2</td>
<td>Admit Decision Time to ED Departure Time for Admitted Patients</td>
<td>0497</td>
</tr>
<tr>
<td>HH-02</td>
<td>Hospital Harm—Severe Hyperglycemia Measure</td>
<td>3533e</td>
</tr>
<tr>
<td>HH-01</td>
<td>Hospital Harm—Severe Hypoglycemia Measure</td>
<td>3503e</td>
</tr>
<tr>
<td>PC-05</td>
<td>Exclusive Breast Milk Feeding</td>
<td>0480</td>
</tr>
<tr>
<td>STK-02</td>
<td>Discharged on Antithrombotic Therapy</td>
<td>0435</td>
</tr>
<tr>
<td>STK-03</td>
<td>Anticoagulation Therapy for Atrial Fibrillation/Flutter</td>
<td>0436</td>
</tr>
<tr>
<td>STK-05</td>
<td>Antithrombotic Therapy by the End of Hospital Day Two</td>
<td>0438</td>
</tr>
<tr>
<td>STK-06</td>
<td>Discharged on Statin Medication</td>
<td>0439</td>
</tr>
<tr>
<td>VTE-1</td>
<td>Venous Thromboembolism Prophylaxis</td>
<td>0371</td>
</tr>
<tr>
<td>VTE-2</td>
<td>Intensive Care Unit Venous Thromboembolism Prophylaxis</td>
<td>0372</td>
</tr>
<tr>
<td>Safe Use of Opioids</td>
<td>Safe Use of Opioids – Concurrent Prescribing</td>
<td>3316e</td>
</tr>
</tbody>
</table>
Table IX.F.-08: CQMs for Eligible Hospitals and CAHs for CY 2024 and Subsequent Years

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Measure Name</th>
<th>NQF No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH-02</td>
<td>Hospital Harm—Severe Hyperglycemia Measure</td>
<td>3533e</td>
</tr>
<tr>
<td>HH-01</td>
<td>Hospital Harm—Severe Hypoglycemia Measure</td>
<td>3503e</td>
</tr>
<tr>
<td>STK-02</td>
<td>Discharged on Antithrombotic Therapy</td>
<td>0435</td>
</tr>
<tr>
<td>STK-05</td>
<td>Antithrombotic Therapy by the End of Hospital Day Two</td>
<td>0438</td>
</tr>
<tr>
<td>VTE-1</td>
<td>Venous Thromboembolism Prophylaxis</td>
<td>0371</td>
</tr>
<tr>
<td>VTE-2</td>
<td>Intensive Care Unit Venous Thromboembolism Prophylaxis</td>
<td>0372</td>
</tr>
<tr>
<td>Safe Use of Opioids</td>
<td>Safe Use of Opioids – Concurrent Prescribing</td>
<td>3316e</td>
</tr>
</tbody>
</table>

(4) Proposed Updates to Certification Requirements for eCQM Reporting—2015 Edition Cures Update

In the ONC 21st Century Cures Act final rule, ONC revised the clinical quality measurement criterion at § 170.315(c)(3) to refer to CMS QRDA Implementation Guides and remove the Health Level 7 (HL7®) QRDA standard from the relevant health IT certification criteria (85 FR 25668). In the Information Blocking and ONC Health IT Certification Program: Extension of Compliance Dates and Timeframes in Response to the COVID–19 Public Health Emergency interim final rule with comment period (85 FR 70064), ONC finalized that health IT developers will have until December 31, 2022, to make updated certified technology available in accordance with the revised criteria (85 FR 70066 through 70068).

The revision was responsive to industry feedback that the health IT certified to the prior “CQMs-report” criterion was only primarily being used to submit eCQMs for CMS reporting programs. These updates were finalized to reduce burden on health IT developers under the ONC Health IT certification program and have no impact on providers’ existing reporting practices for CMS programs.

In this proposed rule, we are proposing to require eligible hospitals and CAHs to use only certified technology updated consistent with the 2015 Edition Cures Update as finalized in the ONC 21st Century Cures Act final rule (85 FR 25642 through 25667) to submit data for eCQMs, beginning with the reporting period in CY 2023. This is in alignment with the proposal for the Hospital IQR Program discussed in section IX.C. of the preamble of this proposed rule. We refer readers to the ONC 21st Century Cures Act final rule for additional information about the updates included in the 2015 Edition Cures Update (85 FR 25666 through 25668). We also refer readers to the CY 2021 PFS final rule for the Medicare Promoting Interoperability Program (85 FR 84815 through 84825) and the Hospital IQR Program (85 FR 84825 through 84828), and section IX.C. of the preamble of this proposed rule for additional information related to this proposal.

We invite public comment on our proposal to require hospitals and CAHs to use only certified technology updated consistent with the 2015 Edition Cures Update to submit data for eCQMs, beginning with the reporting period in CY 2023, in alignment with the Hospital IQR Program proposal.

(5) References to Additional Requests for Information

We also refer readers to section IX.A of the preamble of this proposed rule where we request information on potential actions and priority areas that would enable the continued transformation of our quality measurement enterprise toward use of the Health Level Seven International (HL7®) Fast Healthcare Interoperability Resources (FHIR®) standard.

Additionally, we refer readers to section IX.B of the preamble of this proposed rule where we request information on the possibility of expanding our current social disparities methods in order to include race and ethnicity as well as seeking comment on the potential design of a hospital equity score for calculating results across multiple social risk factors and measures.

12. Requests for Information

a. Request for Information on Additional Objectives or Measures Adopting FHIR®-Based API Standards

Fast Healthcare Interoperability Resources (FHIR®) (http://hl7.org/fhir) is a free and open-source standards framework (in both commercial and government settings) created by Health Level Seven International (HL7®) that establishes a common language and process for all health IT. FHIR® allows systems to communicate and information to be shared seamlessly with a lower burden on stakeholders. Through the HL7® FHIR® standard, cost and burden for health care providers and patients are reduced since it simplifies implementation without sacrificing information integrity, and establishes fast, efficient, and flexible health data exchange as a stand-alone standard or combined with existing standards. Essentially, HL7®’s FHIR® standard framework provides an interoperable platform for a variety of healthcare data by defining a standard way to structure this information as ‘resources’ and allows developers-friendly automated data-exchange to occur via APIs. The use of APIs utilizing the FHIR® standard has the potential to improve data exchange by providing consistent security, performance, scalability, and structure to all users.

Given the progress of such emerging health IT innovation standards to promote interoperability at large, we see increased adoption of approaches utilizing the latest HL7® FHIR® standard as an opportunity to consider how these approaches can support other program goals.
In the CY 2021 PFS final rule, we finalized alignment of the CEHR T definition for the Promoting Interoperability programs with updates to 2015 Edition certification criteria as finalized in the ONC 21st Century Cures Act final rule. As part of the ONC 21st Century Cures Act final rule, ONC finalized a new certification criterion “Standardized API for patient and population services” at 45 CFR 170.315(g)(10) which supports the availability in certified health IT of an API using the FHIR® R4 standard and other implementation specifications. We noted that technology certified to this criterion will be used to support the API requirements in the Provide Patients Access to their Health Information objective. Regarding the bi-directional HIE measure finalized for eligible clinicians in the 2021 PFS final rule (85 FR 48488 through 48493) (this rule is proposing a similar measure for adoption in the Medicare Promoting Interoperability Program for eligible hospitals and CAHs), we also noted that the standards-based API criterion at 45 CFR 170.315(g)(10) could be used to support connections to an HIE in order to complete the measure’s actions.

We are seeking comments on our intention to further align Medicare Promoting Interoperability Program measures with approaches utilizing HL7® FHIR® standard Release 4-based API functionality (or the appropriately evolved standard), with the Health Information Exchange as well as the Public Health and Clinical Data Exchange objectives. Throughout this ongoing developmental process, we are partnering with ONC and continuing to strengthen collaboration on the implementation of the ONC 21st Century Cures Act final rule.

We are interested in public comments on how these two program objectives could be furthered through the use of FHIR®-based API solutions. Specifically, we are interested in the following questions:

- To what degree are stakeholders currently using or interested in using APIs to exchange information in support of the numerator/denominator measures under the HIE objective? What revisions to the measures under the HIE objective should CMS explore to facilitate use of standards-based APIs in health IT modules certified under the 2015 Edition Cures Update?
- How could technical approaches utilizing the FHIR® standard enhance existing data flows required under the public health measures? What are promising health IT-enabled approaches to public health reporting use cases that ONC and CMS should explore for potential future consideration as part of the Promoting Interoperability program and the ONC Health IT Certification Program?

  - To what degree are PHAs and individual states currently exploring API-based approaches to conducting public health registry reporting? What other factors do stakeholders see as critical factors to adopting FHIR®-based approaches?
  - What potential policy and program changes in CMS and other HHS programs could reduce health care provider and health IT developer burden related to measures under the Health Information Exchange and the Public Health and Clinical Data Exchange objectives?

b. Request for Information on a Patient Access Outcomes Measures

The evolution of EHRs has created a greater and more seamless flow of information within a digital healthcare infrastructure, which allows for comprehensive records to be made available wherever and whenever they are needed in the clinical setting. These advances have led to: (1) Improved patient care; (2) increased patient participation; (3) improved care coordination; (4) greater practice efficiencies and cost savings; and (5) improved diagnostics and patient outcomes.1445 Much research has been dedicated to looking at the implementation of health IT in practice settings with its wide array of potential benefits, but equally important is better understanding the patient’s role as an active end-user as well.

Several large, nationally representative surveys have been completed annually in order to collect and evaluate the public’s access and use of health information. One of these endeavors operated by the National Cancer Institute (with support from ONC) is called The Health Information National Trends Survey (HINTS) that produces a plethora of key utilization data specifically pertaining to consumers’ access and use of their online medical records via patient portals. The HINTS results point to an overall year-over-year rise in the number of Americans who are not only accessing their medical records online (from 51% in 2018 to 58% in 20191446) but are increasingly doing so to perform meaningful actions such as to view lab test results, transmit their data to a third-party, and to securely message their health care provider. While sources like the HINTS survey are revealing preferential trends, habits, and other key utilization points, the data also show some strong barriers associated with patients accessing EHR technology and continue to stress the need for further work in understanding these users’ access outcomes.

We believe a strong partnership between EHR vendors, health care providers, and beneficiary users’ outcomes is critical to improving the future of health care and furthering interoperability. Therefore, we are seeking comments surrounding changes to the Medicare Promoting Interoperability Program and related efforts which could better target patient access outcomes related to use of patient portals or third-party application(s). This request for information is an opportunity to garner general interest, solicit stakeholder feedback on how to best evaluate issues of patient behavior, and to explore additional key outcome variables to capture for measurement. Specifically, we are looking for feedback on the following questions:

- What do stakeholders believe would be useful ways to measure patients’ access to their electronic health information using health IT methods such as patient portals and/or third-party applications? What actionable figures related to users’ medical record behavior, including but not limited to, the frequency of logins, number of messages sent, or lab results viewed could be captured?
- How effectively is the Medicare Promoting Interoperability Program currently measuring the use of health IT-enabled processes to improve patient outcomes? What measures in the current program are most relevant to patient outcomes?
- Should we consider requiring providers to maintain a record of third-party applications which patients have used to access their patient health information through APIs incorporated within certified technology so that this information could be used to assess patient usage of these applications?
- What are specific technologies, capabilities, or system features (beyond those currently addressed in the Medicare Promoting Interoperability Program) that can increase patient utilization of tools to access their health information? How do these technologies and features support improved access or usability within EHR systems and other health IT-enabled approaches (for instance, alternate authentication technologies that can simplify consumer logon)? How could

1445 https://www.healthit.gov/topic/health-it-basics/benefits-ehrs
CMS reward health care providers for higher adoption rates and use of these available technologies:

- What are key administrative processes that could benefit from more efficient electronic workflows? How could CMS measure and reward participating eligible hospitals or CAHs for either greater uptake of patient portal access or subsequent health outcomes?

  
c. Request for Information on Clinical Notes

  OpenNotes is an international movement aimed to spread and study the effects of transparent communication among patients, families, and clinicians. With more than 50 million patients in the U.S. and Canada having gained access to their clinical notes, the push for patient engagement and transparent communication continues to grow. "Clinical notes" are regarded as highly desirable data necessary for the interoperable exchange of health information and patient access. Comprised of structured and unstructured data, clinical notes may include the assessment, diagnosis, plan of care and evaluation of plan, patient teaching, and other relevant data.

  While the ability to share clinical notes has been previously supported for certified health IT in different ways, ONC took additional steps to ensure this important patient information is available as part of the recent ONC 21st Century Cures Act final rule (85 FR 25674 through 25677). In the rule, ONC finalized eight types of "clinical notes" required under the USCDI version 1: (1) Discharge Summary Note; (2) History & Physical; (3) Progress Note; (4) Consultation Note; (5) Imaging Narrative; (6) Laboratory Report Narrative; (7) Pathology Report Narrative; and (8) Procedure Note.

  As previously discussed in the CY 2021 PFS final rule (85 FR 84825), we finalized to align the CEHRT definition under the Medicare Promoting Interoperability Program with the updates to certification criteria finalized under the ONC 21st Century Cures Act final rule. This alignment includes updates to several certification criteria to refer to the USCDI and the expanded support for clinical notes specified in the USCDI version 1 standard. New and updated certification criteria incorporating the USCDI, include the "view, download, and transmit" criterion at 45 CFR 170.315(o)(1), and the “Standardized API for patient and population services” criterion at 45 CFR 170.315(g)(10). Once health IT developers and providers have completed implementation of these updates, certified health IT utilized for participation in the Promoting Interoperability Programs will support availability of the clinical note types in the USCDI as part of the data set made available to patients under the Provide Patients Access to their Health Information measure. According to the policy finalized in the CY 2021 PFS final rule, eligible hospitals and CAHs may begin using updated technology as soon as it is available from their developers (effective upon the effective date of the CY 2021 PFS final rule), with updated technology being required for reporting periods beginning in CY 2023.

  Under this RFI, we are seeking feedback on changes we can make that will better support the goals of the OpenNotes movement to ensure that clinical notes are widely available to patients. Given the implementation of updates to certified technology, as previously described, that support the Provide Patients Access to their Health Information measure, are there additional changes to this measure, or other program guidance, which could further facilitate ensuring clinical notes are available to patients consistent with the goals of the OpenNotes movement? We are also seeking stakeholder feedback on the development of a required and independently scored measure for the Medicare Promoting Interoperability Program to allocate points for the use of “clinical note” types supported by certified health IT. Finally, we are seeking comment on the types of clinical notes that are commonly sought, but not easily accessible to patients.

  d. Request for Information on Designating High Performing Hospitals

  Several industry-sponsored models have been developed to recognize and distinguish hospitals and CAHs for their adoption and utilization of EHR functionality. Scored and ranked, these designations have been developed by industry experts to highlight key areas such as level of EHR adoption, comparative capabilities to rank hospitals, and serving as a marketing tool for public recognition. Two examples include the HIMSS Analytics Electronic Medical Record Adoption Model (EMRAM),1450 and the CHIME Most Wired Model.1451 EMRAM is an eight-stage model scoring hospitals relative to their Electronic Medical Records (EMR) capabilities, measuring the adoption and utilization of EMR functionality. The Most Wired is a ten-stage model, which encourages maximizing the use of information technology to improve patient safety and outcomes, while forging change in health IT.

  We are seeking stakeholder feedback on the development of, or support and adoption of, designating high performing hospitals in the context of EHR excellence. Specifically, we seek stakeholder input on the following questions:

  - Are there specific industry-based models that are wholly representative of EHR excellence in the hospital or CAH setting? Which model is most representative and why?
  - What are the limitations in applying for, or receiving one of the industry-based designations? What would help facilitate hospitals and CAHs to obtain and maintain such a designation?
  - Does earning a designation accurately reflect EHR excellence within the patient community or amongst hospitals and CAHs?
  - Is there interest in a CMS-driven designation program? If so, which components are most meaningful and valuable to hospitals and CAHs?
  - Would we like feedback on the potential of developing a Star Rating for Promoting Interoperability, or, adding Promoting Interoperability as a category for existing Star Ratings. Would this effort accurately represent EHR excellence?

X. Other Policy Provisions

A. Medicaid Enrollment of Medicare Providers and Suppliers for Purposes of Processing Claims for Cost-Sharing for Services Furnished to Dually Eligible Beneficiaries

1. Background

Dually eligible beneficiaries are those enrolled in both Medicare (either Part A, Part B, or both) and Medicaid. About 8 million dually eligible individuals are enrolled in the Qualified Medicare Beneficiary (QMB) program, which is a Medicaid benefit that assists low-income Medicare beneficiaries with Medicare Part A and Part B premiums.

1447 https://www.opennotes.org/about/.
1448 https://www.opennotes.org/history/.
1450 https://www.himssanalytics.org/emram.
1451 https://chimecentral.org/chime-most-wired-2/#tab_rst_panel1-0.
1452 Under 1905(p)(1) of the Act, a QMB is an individual who is entitled to hospital insurance benefits under Part A of Medicare, with income not exceeding 100 percent of the Federal poverty level, and resources not exceeding three times the SSI limit, adjusted annually by the Consumer Price Index. For more information about QMB eligibility and benefits, see chapter 1, section 1.6.2.1 and Appendices 1.A and 1.B of the Manual for the State Payment of Medicare Premiums.
and cost sharing. QMB “Medicare cost-sharing” amounts, as defined in section 1905(p)(3) of the Act, include Medicare Part A and B premiums, coinsurance, and deductibles. Section 1902(a)(10)(E) of the Act directs states to pay providers for Medicare coinsurance and deductibles. Under section 1905(p)(3) of the Act, “Medicare cost-sharing” includes costs incurred with respect to a QMB, regardless of whether the costs incurred were for items and services covered under the Medicaid State plan. Additionally, some State Medicaid agencies also elect to pay the Medicare cost-sharing for other (non-QMB) dually eligible beneficiaries.

However, section 1902(n)(2) of the Act permits the State to limit payment for Medicare cost-sharing to the amount necessary to provide a total payment to the provider (including Medicare, Medicaid State plan payments, and third party payments) equal to the amount a State would have paid for the service under the Medicaid State plan. This is often referred to as the “lesser-of” policy.

If a State has adjudicated its Medicare cost-sharing to a provider pursuant to the lesser-of policy for an individual enrolled in the QMB program, section 1902(n)(3) of the Act prohibits the provider from collecting the remaining amount from the beneficiary. However, certain providers may recover a portion of these unpaid cost-sharing amounts as Medicare “bad debt” if they meet all the requirements in 42 CFR 413.89 and as described further in the Provider Reimbursement Manual Part 1 Chapter 3. Pursuant to § 413.89(h), bad debt payments are generally 65 percent of the uncollected amount for these services.

Per 42 CFR 413.89, providers must exclude any cost-sharing amount legally owed by the State from Medicare bad debt amounts claimed. CMS requires a provider that furnishes services to a dually eligible beneficiary to determine whether the State’s Medicaid program (or applicable third party) is responsible for paying all or a portion of the beneficiary’s Medicare deductible and/or coinsurance (and if so, how much) before the provider can claim these amounts as Medicare bad debt. Before claiming any unpaid cost-sharing amounts as a Medicare bad debt for a dually eligible beneficiary, the provider must bill the State or State designee, such as a Medicaid managed care organization (MCO) (the “must bill” policy), and obtain from the State or State designee documentation of completed claim processing and claim adjudication information in the form of a Medicaid remittance advice (RA) that sets forth the State’s cost-sharing liability for the items and services the beneficiary received (the “RA” policy).

2. Claims for Medicare Cost-Sharing for Dually Eligible Beneficiaries and Misaligned Medicare and Medicaid Provider Enrollment

Section 1903(a)(3)(A)(i) of the Act requires each State Medicaid Management Information System (MMIS) to process Medicare claims for dually eligible beneficiaries for Medicare cost-sharing. Furthermore, to comply with sections 1902(a)(10)(E) and 1902(n)(1) and (2) of the Act, the State MMIS must be able to process all such claims for Medicare cost-sharing liability even if the Medicaid State plan does not recognize a service or provider category. Nevertheless, some states in the past have inhibited enrollment of certain types of providers or suppliers that are not explicitly included in their State plan. If a Medicare-enrolled provider or supplier has been unable to enroll with the State Medicaid program, then the State MMIS may not adjudicate the cost-sharing claim and also may not return a Medicaid RA to the provider for the purposes of computing Medicare bad debt absent further actions by the State or by the provider.

To clarify states’ obligations regarding claims for Medicare cost-sharing by adding a new paragraph (d) to 42 CFR 455.410 to clearly specify in regulation how states must meet this obligation. Specifically, we propose that, for purposes of determining Medicare cost-sharing obligations, the State Medicaid programs must accept enrollment of all Medicare-enrolled providers and suppliers (even if a provider or supplier is of a type not recognized as eligible to enroll in the State Medicaid program) if the provider or supplier otherwise meets all Federal Medicaid enrollment requirements. These Federal requirements include, but are not limited to, all applicable provisions of 42 CFR part 455, subparts B and E.

States must process claims from such providers requesting that the State determine its cost-sharing liability. States are already directed to issue RAs under section 11325.A of the State Medicaid Manual (stating that the Medicaid MMIS must produce remittance advice to providers) as part of its responsibility, already required pursuant to 42 CFR 433.112(b)(3), to process claims for dual eligible beneficiaries. We note that neither this existing guidance nor the provisions of this proposed rule would require states to recognize or enroll additional provider types for purposes other than submission, adjudication of cost-sharing claims, and issuance of a Medicaid RA. Accordingly, states may wish to consider a separate enrollment process or provider enrollment category specifically for Medicare providers and suppliers for purposes of determining cost-sharing, consistent with existing laws, acknowledging that individual states are in the best position to assess the feasibility of this or other possible approaches. We leave it to states to determine how best to implement these requirements consistent with their system needs and capabilities, provisions of their Medicaid State plan and State law, and Federal Medicaid provider enrollment regulations and sub-regulatory guidance. However, states should consult with CMS to help ensure their compliance with 42 CFR 455.410(d) and other Federal provider enrollment requirements related to this proposal.

We propose that State Medicaid programs and their applicable systems be in compliance with proposed § 455.410(d) in time to process cost-sharing claims for dually eligible beneficiaries with dates of service beginning January 1, 2023, recognizing that, despite current MMIS requirements, some states may need to make systems changes to comply. Updates to the State MMIS are likely eligible for 90/10 Federal medical assistance percentage (FMAP) as set forth in 1903(a)(3)(A) of the Act. If necessary, we will propose specific enforcement penalties for non-compliance in future rule making. We

1453 The FY 2021 Hospital Inpatient Prospective Payment Systems (IPPS) for Acute Care Hospitals and the Long-Term Care Hospital (LTCH) Prospective Payment System final rule (85 FR 58432), published on October 1, 2020, created the Medicaid RA alternative documentation policy with a retroactive effective date, to allow providers with pending appeals a way to submit alternative documentation to the Medicaid RA that sets forth the state’s liability for the cost-sharing. We anticipate the alternative documentation policy will only need to be in effect until states comply with the existing statute and process crossover cost-sharing claims for all Medicare providers. We would consider in future rulemaking removing the alternative once states comply with our proposal in this notice of proposed rulemaking.

discuss Medicaid burden associated with these system changes in section I.H.10 of Appendix A of this proposed rule.

We believe that the requirements of proposed § 455.410(d) may reduce the number of future bad debt appeals by ensuring certain Medicare-enrolled providers and suppliers can enroll with State Medicaid programs, receive Medicaid Remittance Advice (RAs), and claim Medicare bad debt. In reducing these appeals, the proposal would reduce the cost for providers to pursue such appeals and subsequent litigation, as well as the costs for CMS to defend them. Therefore, we estimate provider and Federal savings from avoiding future Medicare bad debt appeals. We discuss this reduction in provider and Federal burden in detail in section I.H.10 of Appendix A of this proposed rule.

Failure of State MMIS to provide an RA for cost-sharing claims for dually eligible beneficiaries may also contribute to reduced access to care. Some providers may choose not to treat, or continue treating, dually eligible beneficiaries, due to the provider burden associated with getting paid for cost-sharing claims; a decrease in providers willing to serve the dually eligible population could result in fewer health care options for beneficiaries. We believe this proposal may have a positive impact on beneficiary access to care through reduced provider burden.

In addition to certain Medicare-recognized provider and supplier types having difficulty enrolling in some Medicaid programs for purposes of submitting cost-sharing claims, as previously discussed, we have also heard that some providers have had difficulty getting states to process certain cost-sharing claims for services that are not payable by the State under the terms of the Medicaid State Plan. We received feedback from providers that some states determine their cost-sharing liability for a Medicare service by applying the Medicaid payment and coverage rules for the service as if the service (rather than the cost-sharing) were being paid by Medicaid. This means that the State MMIS will reject, deny, or return zero liability for a claim for Medicare cost-sharing unless the provider completes Medicaid documentation and meets Medicaid coverage and payment standards. For example, a provider submits a claim for oxygen therapy for use in home with a lifetime length of need and the claim meets Medicare payment and coverage standards. When the provider submits this claim for Medicaid payment of cost-sharing (or when Medicare “crosses over” the claim to the State), the State denies the claim because the claim does not meet the State’s conditions of Medicaid payment for oxygen therapy (that is, the provider must complete and sign a State’s Medicaid certificate of medical necessity or certificate of need, which requires different Medicaid coding and modifiers, and has a maximum length of need of 12 months). A State operational policy like this creates unnecessary work for providers, suppliers, and beneficiaries. It could also prevent the State from meeting its actual cost-sharing liability. Building on the provider enrollment requirement in proposed § 455.410(d), we considered proposing a policy that states must process claims for Medicare cost-sharing without requiring that the claim meet the Medicaid State plan coverage and payment rules for that service. Instead, we request additional feedback from stakeholders on the scope of this practice, including State and service specific examples, and we will consider whether to include such a policy or otherwise address the issue in future rulemaking.

B. Organ Acquisition Payment Policies

1. Background

a. History of Medicare Organ Acquisition Policies

The Medicare Program supports organ transplantation by providing an equitable means of payment for the variety of organ acquisition services. Medicare excludes organ acquisition costs from the inpatient hospital prospective diagnosis-related group (DRG) payment for an organ transplant, and separately reimburses transplant hospitals (THs) for the organ acquisition costs on a reasonable cost basis (42 CFR. 412.2(e)(4) and 412.113(d)).

Medicare’s current organ acquisition policy is modeled after the kidney acquisition policy that was implemented for kidney transplants following the Social Security Amendments of 1972 (Pub. L. 92–603) that extended Medicare coverage to individuals with end stage renal disease (ESRD) who required dialysis or transplantation. In July 1973, CMS (then the Bureau of Health Insurance) issued Intermediary Letters (IIs) which set forth procedures and policies for Medicare reimbursement for kidney transplants. The IL 73–25 (July 1, 1973) set forth policies for the reimbursement for kidney transplants and dialysis, including policies for hospital reimbursement for the acquisition of a kidney from cadaveric and living donors for transplant into a Medicare beneficiary. In IL 73–25, the BHI commented that as it received and analyzed data and studied reimbursement methodology, it would develop and issue more detailed reimbursement instructions to support the delivery of quality services in an efficient manner. In July 1974, the BHI issued IL 74–23, which set forth additional policies for Medicare reimbursement of kidney acquisition costs, many of which remain in place currently. In 1978, to clarify that the Secretary of the Department of Health and Human Services (the Secretary) has authority and to provide reimbursement for the costs incurred in connection with kidney donations, Congress enacted legislation that added special provisions relating to coverage under the Medicare Program for ESRD (Pub. L. 95–292). This legislation added section 1881 to the Act that set forth Medicare payment for kidney transplantation and the coverage of organ procurement costs and living donor expenses, including Part A and Part B benefits for the living donor. As CMS stated in the 1978 Federal Register (43 FR 44803), the purpose of section 1881 of the Act was to encourage kidney transplantation and the scope of Medicare benefits to cover all reasonable preparatory, operation and post-operation expenses associated with a kidney donor, through the actual period of recovery.

Over the years through various rulings and national coverage determinations, Medicare has added coverage for transplantation of non-renal organs such as heart, liver or lungs; we modeled our reimbursement for the acquisition costs for non-renal organs based on our earlier

1458 We note that any remaining unpaid deductible and coinsurance amounts associated with oxygen and equipment paid under a Medicare fee schedule cannot be an allowable Medicare bad debt.

1459 Under 42 CFR 482.70 a transplant hospital is a hospital that furnishes organ transplants and other medical and surgical specialty services required for the care of transplant patients.

1460 Pursuant to 42 CFR 412.113(d), organ acquisition costs incurred by hospitals with approved transplant programs are paid for on a reasonable cost basis.
kidney acquisition policies. Medicare’s organ acquisition payment policy is mostly set forth in CMS Pub. 15–1, chapter 31.1463 the Provider Reimbursement Manual (herein referred to as PRM) and in Medicare regulations at 42 CFR 412.2(e)(4), 412.100, 412.113(d), 413.200, 413.202, and 413.203. The entities involved in organ acquisition, which we will further define and discuss herein, are THs, donor community hospitals (Medicare-certified non-transplant hospitals), organ procurement organizations (OPOs), some of which are hospital-based OPOs (HPOOs), and histocompatibility laboratories.

Section 1102 of the Act authorizes the Secretary to publish rules and regulations necessary for the efficient administration of the functions with which the Secretary is charged under the Act. Section 1871(a) of the Act authorizes the Secretary to prescribe such regulations as may be necessary to carry out the administration of the insurance programs under this title. In this proposed rule, we are proposing to codify into the Medicare regulations some longstanding Medicare organ acquisition payment policies, with clarifications where necessary, and proposing to codify some new organ acquisition payment policies. We are also proposing to move existing organ acquisition payment regulations or portions of existing kidney acquisition regulations within title 42 of the CFR part 412, subpart G and Part 413, subpart H to a new proposed Part 413, subpart L, so that all organ acquisition payment policies are housed together. We are also proposing to codify into the Medicare regulations some longstanding Medicare organ acquisition payment policies, with clarifications where necessary, and proposing to codify some new organ acquisition payment policies. We are also proposing to move existing organ acquisition payment regulations or portions of existing kidney acquisition regulations within title 42 of the CFR part 412, subpart G and Part 413, subpart H to a new proposed Part 413, subpart L, so that all organ acquisition payment policies are housed together.

We are aware of OIG audits reporting that some OPOs have billed the Medicare Program for unallowable expenditures.1464 There have also been recent Congressional oversight interest and inquiries into OPO financial management.1465 We believe the proposals that follow would provide clarity and allow providers and stakeholders to more easily locate and understand organ acquisition payment policy, resulting in more accurate payment based on reasonable cost principles. We look forward to considering public comments on this proposed rule.

b. Overview of Medicare Reimbursement In Transplantation

Medicare reimburses THs for organ acquisition costs, the transplant surgery, inpatient, and post-transplant costs for the Medicare recipient, and for Medicare organ acquisition costs, through different payment systems. Medicare Part A pays for hospital costs of a transplant surgery and certain follow-up care through a DRG payment and the organ acquisition costs associated with a transplant on a reasonable cost basis. In general, Medicare Part B pays for the physician services and other services furnished to eligible Medicare beneficiaries. CMS established Conditions of Participation (CoP) for hospitals under 42 CFR part 482, subpart E. Transplant programs, located within a TH that has a Medicare provider agreement, must meet the hospital CoPs at §§ 482.1 through 482.70 and the transplant program CoPs, located at §§ 482.72 through 482.104, and additional requirements in order to be eligible to participate in the Medicare Program.

OPOs coordinate the procurement, preservation and transportation of organs from deceased donors, and maintain a system for locating prospective recipients for organ transplantation. Section 1138 of the Act sets forth hospital protocols for the identification of potential organ donors and the standards for OPOs. To be an OPO, an entity must meet the applicable requirements of both the Act and the Public Health Service Act (the PHS Act). The statutory functions of an OPO are also set forth in 42 U.S.C. 273; section 371 of the PHS Act. Section 1138(b) of the Act provides the statutory qualifications and requirements that an OPO must meet in order to be reimbursed under the Medicare or Medicaid Program for certain organ procurement costs. CMS established conditions for Coverage (CERs) OPOs must meet in order to receive payment under Medicare or Medicaid for organ procurement costs in the regulations at 42 CFR part 486, subpart G. Section 1138(b)(1)(A) of the Act specifies that payment may be made for organ procurement costs only if the agency is a qualified OPO operating under a grant made under section 371(a) of the PHS Act or has been certified or re-certified by the Secretary as meeting the standards to be a qualified OPO. Among those requirements, each OPO must be a member of, participate in, and abide by the rules and requirements of the Organ Procurement Transplantation Network (OPTN) that are approved by the Secretary. (See 42 CFR 486.320.)

Medicare reimburses THs for organ acquisition costs under reasonable cost principles1466 pursuant to section 1861(v) of the Act, based on the TH’s ratio of Medicare usable organs to total usable organs. Medicare authorizes payment to designated OPOs for kidney acquisition costs, under reasonable cost principles1467 pursuant to section 1861(v) of the Act, based on the OPO’s ratio of Medicare usable kidneys to total usable kidneys (see section 1881(b)(2)(A) of the Act).

Histocompatibility laboratories provide laboratory services to ensure compatibility between donor organs and potential recipients in preparation for transplants. Section 1881(b)(2)(A) of the Act authorizes Medicare reimbursement for the cost incurred by a histocompatibility laboratory pursuant to sections 1861(5) or 1886 (if applicable). Histocompatibility laboratories are either independent or hospital-based. A histocompatibility laboratory is “independent” unless it is considered a department of the hospital and subject to control of the hospital.1468 42 CFR 413.200(a) requires the reasonable costs of services furnished by histocompatibility laboratories be reimbursed in accordance with the principles contained in 42 CFR 413.60 and 413.64.

2. Organ Acquisition Payment Policy Proposals

a. Terminology Notes and Proposed Definitions

(1) Use of Consistent Terminology

Throughout this proposed rule, we will use consistent terminology such as “transplant hospital” and “transplant program.” These terms have been

1463 CMS Pub. 15–1, chapter 31 can be found at https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Paper-Based-Manuals-Items/CMSPub15129.pdf [Prior to the creation of chapter 31, the kidney acquisition policy was set forth in CMS Pub. 15–1, chapter 27, Outpatient Maintenance Dialysis Reimbursement].


1466 See 42 CFR 412.113(d); HCFA Ruling 87–1 (April 1987); CMS Ruling 1543–R (December 2006).

1467 Id. Section 1138(b)(1)(F) of the SSA: 42 CFR 413.1(h)(1)(ii)(A); 413.200(a).

1468 43 FR 58371 (December 14, 1978).
Medicare to pay for items and services that are reasonable and necessary routine patient care costs related to acquisition and delivery of pancreatic islet cells for transplantation into Medicare beneficiaries included in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial of islet cell transplants.

Our proposed definition of organ is for Medicare organ acquisition payment purposes and differs from the definition set forth in 42 CFR 486.302 for OPOs. The CMS OPO CfCs final rule (85 FR 77947 published December 2, 2020), defines “organ” under 42 CFR 486.302, to mean a human kidney, liver, heart, lung, pancreas, or intestine (or multivisceral organs when transplanted at the same time as an intestine). The pancreas counts as an organ even if it is used for research or islet cell transplantation. The final rule describes the inclusion in the performance measures for OPO certification of pancreata used for research in the definition of organ as necessary in order to meet the statutory requirements of section 371(c) of the Public Health Service Act that provides pancreata procured by an OPO and used for islet cell transplantation or research shall be counted for purposes of certification or reaccreditation (85 FR 77902). However, for Medicare payment purposes, an organ procured for research is not counted as a Medicare organ in Medicare’s share of organ acquisition costs, except where explicitly required by law. Therefore, in order to mitigate potential stakeholder confusion, we are proposing a definition of “organ” for organ acquisition payment purposes that differs from the definition set forth in the OPO CfCs.

We are proposing to include the definition of Organ Procurement Organization (OPO) as it currently exists in §413.200(b). As defined in 42 CFR 486.302, an OPO means an organization that performs or coordinates the procurement, preservation, and transport of organs and maintains a system for locating prospective recipients for available organs. An OPO can be a HOPO or an independent OPO. An OPO is “independent” unless it is considered a department of the hospital and subject to control of the hospital.

Additionally, we are proposing to codify the definition of a HOPO as an OPO that is considered a department of the TH and reports organ acquisition costs it incurs on the TH’s Medicare cost report (MCR). The proposed definition is consistent with the description of HOPO in the PRM, and is commonly known in the organ acquisition and transplant community. We are proposing to codify our proposed definition in §413.400, new subpart L. As of March 12, 2021, there are 7 HOPOs in operation.1470

We are also proposing that a transplant hospital/HOPO (TH/HOPO) refers to a transplant hospital, or a transplant hospital that operates a HOPO (as defined previously in this section) and performs organ procurement activities as one entity. We are proposing to codify our proposed definition in §413.400 new subpart L.

We are also proposing to revise the terminology “freestanding” as it currently exists in 42 CFR 413.200(b) in relation to OPOs, to be “independent OPO (IOPO)” because this terminology is more widely used in the industry. We are also proposing to revise the IOPO definition to clarify the distinguishing factor. The proposed definition for an IOPO would mean an OPO that files a MCR separate from a hospital and meets all of the following: (1) Is not subject to the control of a hospital with respect to the hiring, firing, training, and paying of employees; (2) is not considered as a department of a hospital for insurance purposes (including malpractice insurance, general liability insurance, worker’s compensation insurance, and employee retirement insurance); and (3) reports organ acquisition costs it incurs on the IOPO MCR.1471 We are clarifying that an IOPO that wishes to have the cost of its pre-transplant services reimbursed under Medicare must agree to certain requirements specified in 42 CFR 413.200(c). If an IOPO operates a histocompatibility laboratory, the costs of its histocompatibility laboratory are included on the IOPO’s MCR. We are proposing to codify our proposed definition in §413.400, new subpart L.

A histocompatibility laboratory performs laboratory services to determine the degree of histocompatibility between donor organs and potential recipients. We are also proposing to include a definition of “histocompatibility laboratory” as it currently exists in §413.200(b) with a technical correction. We are proposing to make a technical correction to the cross-reference to §413.2171(d) because

---

1471 Organ Procurement Organizations and Histocompatibility Laboratory, currently Form CMS-219, OMB No. 0938-0050.
this regulation citation is no longer correct. We are proposing that “histocompatibility laboratory” means a laboratory meeting the requirements set forth in 42 CFR 493.1227 and providing the services for the acquisition of kidneys or other organs for transplantation. We are proposing to codify our proposed definition in § 413.400, new subpart L.

We are proposing that standard acquisition charge (SAC) means a charge as defined in proposed new § 413.404 in section X.B.2.c. of this proposed rule. We are proposing to codify our proposed definition in § 413.400, new subpart L.

We are also proposing to add the definitions for “transplant hospital” and “transplant program” that currently exist in 42 CFR 482.70 in § 413.400, to new subpart L.

b. Proposals Related to Organ Acquisition Costs

(1) Proposed Items and Services Considered Organ Acquisition Costs

In this proposed rule, we are proposing to add § 413.402(a) to new subpart L to specify that costs incurred in the acquisition of organs from a living donor or a cadaveric donor by the hospital or by an OPO, as appropriate, are organ acquisition costs. To make necessary policy revisions and clarifications of acquisition costs for kidneys as well as for non-renal organs, we are proposing to revise § 412.100(b), by removing the list of organ acquisition costs found in that paragraph and re-codifying them with some revisions by adding § 413.402(b) to new subpart L.

We are proposing to codify that the costs of acquiring organs (kidneys and non-renal organs) covered by Medicare Part A are: (1) Tissue typing, including tissue typing furnished by independent laboratories; (2) donor and beneficiary evaluation; (3) other costs associated with excising organs, such as general routine and special care services provided to the donor; (4) operating room and other inpatient ancillary services applicable to the donor; (5) preservation and perfusion costs; (6) OPTN registration fees; (7) surgeons’ fees for excising cadaveric organs (currently limited to $1,250 for kidneys); (8) transportation of the excised organ to the TH; (9) costs of organs acquired from other hospitals or OPOs; (10) hospital costs normally classified as outpatient costs applicable to organ excisions (services include donor and recipient tissue typing, work-up, and related services furnished prior to admission); (11) costs of services applicable to organ excisions which are rendered by residents and interns not in approved teaching programs; and (12) all pre-admission services applicable to organ excisions, such as laboratory, electroencephalography, and surgeons’ fees for cadaveric excisions, applicable to organ excisions including the costs of physicians’ services.

We are proposing to apply the existing elements of kidney acquisition costs found in § 412.100(b) to all organs, with clarifying revisions as described here. These Items and services are currently specified in § 412.100(b) (for kidneys only) and also discussed in sections 3101, 3102, and 3103 of the PRM. We are proposing to revise § 412.100(b) to reference that kidney acquisition costs are specified in new § 413.402(b) of this chapter.

We are proposing to add § 413.402(b) to new subpart L to include the costs for registration of a beneficiary for a kidney transplant as specified in § 412.100(b)(6) and also include the costs for registration of a beneficiary for a non-renal transplant. The OPTN registration fee is assessed for all transplant candidates placed on the OPTN waiting list. We are proposing to limit these registration fees to the OPTN registration fee. Reasonable cost principles, as set forth in section 1861(v) of the Act and specified in 42 CFR 413.1(b) and § 413.9, do not permit Medicare to pay for duplicate services. Any registration fee outside of the OPTN registration fee would be considered unnecessary and duplicative under reasonable cost principles for Medicare organ acquisition costs.

Some kidney acquisition costs differ depending on whether the donor is living or cadaveric. Our proposal would codify that surgeon fees are included as kidney acquisition costs only when the kidney excision occurs with a cadaveric donor. When a living donor enters the hospital for the actual kidney excision, surgeon fees for excising the kidney are not included as kidney acquisition costs. The surgeon bills these surgeon fees to Medicare Part B using the transplant recipient’s Medicare Beneficiary Identifier (MBI). Congress enacted section 1881(d) in 1978, which (in part) entitled living donors to benefits under Medicare Part B with respect to the kidney donation, as if the donor were eligible for Medicare, and allowed the Secretary to prescribe in regulation how that would occur. CMS (then HCFA) implemented regulations at 42 CFR 405.231 and 405.244–1, which were subsequently relocated to 42 CFR 410.55 and 410.163, which required Medicare Part B to pay for medical and other health services furnished in connection with a kidney donation if the kidney is intended for a Medicare beneficiary with ESRD, regardless of whether the donor is entitled to Medicare, and without deductibles or co-insurance. As such, our proposed codification of Part A kidney acquisition costs related to donor surgeon fees only focuses on surgeons’ fees for cadaveric excisions.

Section 371(b)(3)(F) of the PHS Act, 42 U.S.C. 273(b)(3)(F), requires that OPOs provide or arrange for the transportation of donated organs to transplant centers. Our proposal clarifies our longstanding policy in PRM section 3101 that Medicare covers the transportation of donated organs as an organ acquisition cost as authorized by section 371(b)(3)(F) of Public Health Service Act.

We are proposing to add § 413.402(b) to new subpart L to specify the acquisition costs given at § 412.100(b) of this chapter, with minor clarifying revisions, and to revise § 412.100(b) to cross-reference § 413.402(b). We are also proposing to make additional revisions, technical corrections and conforming changes to § 412.100 in sections X.B.2.b.(1) and X.B.2.m.(2) of the preamble of this proposed rule.

Finally, we have received inquiries from various stakeholders about whether costs resulting from services to living kidney donors with complications are organ acquisition costs. We are proposing to codify that policy in § 413.402(c) in new subpart L, to provide greater clarity to stakeholders. We discuss details of our policy and proposed codification related to living kidney donor complications in section X.B.2.e.(4) of this proposed rule.

(2) Cost Reporting, Billing, and Payment of Organ Acquisition Costs

Both THs and OPOs can acquire organs for transplantation; therefore, both THs and OPOs can have organ acquisition costs. A TH can acquire organs from either a cadaveric donor or a living donor, while OPOs acquire organs from cadaveric donors. In accordance with requirements at § 413.24(f), at the end of its fiscal year a TH/HOPO files an annual hospital cost report (currently Form CMS–2552) and an IOPO files an annual OPO/
histocompatibility cost report (currently Form CMS–216). Organ acquisition costs incurred by a TH/HOPO are included on the appropriate organ acquisition cost center on its MCR. Organ acquisition costs incurred by an IOPO (or by a histocompatibility laboratory, as authorized in section 1881(b)(2)(A) of the Act and discussed in section X.B.2.d.(3) of this proposed rule) are included in the appropriate organ acquisition cost center on its MCR.

Currently, Medicare pays THs prospective payment amounts based on a DRG for the actual organ transplant; Medicare also reimburses THs for reasonable and necessary costs associated with acquiring organs for transplantation into Medicare beneficiaries (§ 412.113(d)). CMS excludes from the prospective payment amounts inpatient hospital organ acquisition costs for hearts, kidneys, livers, lungs, pancreases, and intestines (or multivisceral organs) incurred by approved THs, as specified in § 412.2(e)(4). Medicare makes payment for organ acquisition costs incurred by hospitals with approved transplantation programs on a reasonable cost basis, as specified in § 412.113(d), and in accordance with the principles of reasonable cost as set forth in section 1861(v) of the Act and in 42 CFR 413.1 and 413.9.

When the TH cost report is settled, the Medicare contractor calculates the Medicare organ acquisition costs by multiplying the total of all allowable organ acquisition costs by the ratio of Medicare usable organs to total usable organs, for each organ type. The contractor reconciles the TH’s Medicare organ acquisition costs by comparing the total interim payment amounts paid for organ acquisition costs under § 413.64(f) to the total actual Medicare organ acquisition costs, and either pays amounts owed or collects from the TH any overpayment.

The statute at section 1881(b)(2)(A) of the Act authorizes Medicare to pay THs for services provided by OPOs for kidney acquisition. Medicare does not directly reimburse OPOs as these services are not covered until the transplant occurs at the TH. At the time of procurement, the OPO does not always know if the organ recipient is a Medicare beneficiary, as the registry database payor information may not be up-to-date. Therefore, OPOs receive an interim payment based on their kidney SAC which is paid directly to them by the TH (or other OPO) that receives the kidney procured. Medicare pays IOPOs for kidney acquisition indirectly, through the reconciliation of actual acquisition costs incurred for kidney acquisition to actual kidney SAC payments received, as part of cost report settlement in accordance with § 413.200(e)(2), to ensure that the Medicare Program is paying its appropriate share. There is no explicit statutory requirement for Medicare to pay IOPOs for non-renal organs in the same way, so reconciliation and settlement of IOPO non-renal organ acquisition costs does not occur. Similar to kidney acquisition costs, IOPOs are paid an interim rate (SAC) directly by the TH (or other IOPO) which receives the non-renal organs the IOPO procures. Kidney and non-renal SACs are discussed in more detail in section X.B.2.c of this proposed rule.

(3) Services Not Considered Organ Acquisition Costs

Medicare does not pay for certain costs incurred by OPOs, in accordance with section 1861(v)(1)(A) of the Act, and we are proposing to establish rules identifying these items. These activities or services include incurred costs found to be unnecessary in the efficient delivery of health care services, and are not limited to:

- Burial and funeral expenses for the cadaveric donor, including transportation of the cadaveric donor before and after excision (burials and funerals are not costs of acquiring organs and are not mentioned in section 371(b)(3) of the PHS Act (42 U.S.C. 273(b)(3)), which lists a number of activities or services that OPOs perform; transportation costs are limited to the cost of transporting donated organs to the transplant hospital);
- Costs associated with the transportation of a living or cadaveric donor (there may be programs and we are proposing to establish rules governing whether the potential recipient is a Medicare beneficiary). However, the reasonable costs of procuring an organ are reimbursable when billed in connection with a Medicare covered transplant. When a TH bills Medicare for the transplant, it bills the DRG charge for the organ transplant and uses its SAC to bill Medicare for the procured organ (currently using revenue code 081X). THs develop categories for certain types of costs incurred in cases where Medicare does not otherwise cover those costs.

1476 See CMS Pub. 15–1, chapter 4 for more information regarding allowable costs of educational activities.

of living or cadaveric SACs, by organ type (for example, heart, liver or lung). When a TH/HPPO or IOPO provides an organ to another TH or OPO, we are proposing that it must bill the receiving TH, TH/HPPO or IOPO its SAC. We are proposing to codify these provisions pertaining to SACs at proposed new § 413.404(a) in new subpart L.

(2) Transplant Hospitals and HPPOs

In this proposed rule, we are proposing to codify provisions pertaining to SACs for TH/HPPOs for living and cadaveric donors at proposed new § 413.404(b) in new subpart L, as described in this section.

(a) Living Donor Standard Acquisition Charge

In this proposed rule, we are proposing to codify Medicare’s longstanding policy regarding a TH’s standard acquisition charges for living donors, as set forth in PRM section 3101.A, and as discussed herein, because these policies remain relevant. THs must develop a SAC for living organs, by organ type (for example heart, liver, or lung). THs/HPPOs must develop a SAC for cadaveric organs, by organ type. The living donor SAC is an average cost the transplant hospital incurs to procure an organ from a living donor. As medicine and transplantation have advanced, there now can be transplants from living donors for kidneys, lungs, and portions of livers, pancreata or intestines, and a living SAC can be established for them.

A TH must establish a living donor SAC (living donor SAC) before the TH bills its first living donor transplant to Medicare. The TH develops the initial living donor SAC for each living donor organ type, by estimating the reasonable and necessary costs it expects to incur for services furnished to living donors, and pre-admission services furnished to recipients of living donor organs during the hospital’s cost reporting period. The TH divides the estimated amount by the projected number of living donor organs to be procured by the TH, within the hospital’s cost reporting period. A TH calculates its subsequent living donor SAC for each living organ type by using the transplant hospital’s actual organ acquisition costs for the living donor organ type from the prior year’s MCR, adjusted for any changes in the current year. The TH divides these costs by the actual number of usable living organs procured by the TH during that prior cost reporting period. Currently, when a TH/HPPO provides an organ to another transplant hospital or OPO, it must bill the receiving TH or OPO its SAC, by organ type, or the hospital’s standard departmental charges that are reduced to cost. The TH/HPPO includes the actual incurred cost for organ procurement services in the organ acquisition cost center on the hospital’s MCR.

Costs that may be used to develop the living donor SAC include, but are not limited to: Costs of tissue typing services, including those furnished by independent laboratories; costs of physician pre-admission transplant evaluation services; OPTN registration fees; costs for donor and recipient evaluation and workup furnished prior to admission for transplantation; other costs associated with procurement, for example, general routine and special care services related to the donor; costs of operating room and other inpatient ancillary services related to the donor; preservation and perfusion costs; and transportation costs of the excised organ. We are proposing to codify these provisions at proposed new § 413.404(b)(3)(i) in new subpart L.

(b) Cadaveric Donor Standard Acquisition Charge

In this proposed rule, we are proposing to codify Medicare’s longstanding policy regarding TH/HPPO standard acquisition charges for cadaveric donors and the costs that may be included in the cadaveric donor SAC, as set forth in PRM section 3101.B, and as discussed herein, because these policies remain relevant. The cadaveric donor standard acquisition charge (cadaveric donor SAC) is an average cost that a TH/HPPO incurs to procure an organ from a cadaveric donor. The TH/HPPO calculates its initial cadaveric donor SAC for each cadaveric organ type, by estimating the reasonable and necessary costs it expects to incur in procuring cadaveric organs, combined with the expected costs of acquiring cadaveric organs from OPOs or other THs. The TH/HPPO divides this estimated amount by the projected number of usable cadaveric organs to be procured by the TH/HPPO within the TH’s cost reporting period.

The TH/HPPO calculates the subsequent cadaveric donor SAC for each cadaveric organ type, by using the transplant hospital’s actual organ acquisition costs for the cadaveric donor organ type from the prior year’s Medicare cost report, adjusted for any changes in the current year. The TH/HPPO divides this estimated amount by the actual number of usable cadaveric organs procured by the TH/HPPO during that prior cost reporting period.

Where the TH/HPPO provides the organ to an OPO or another TH, the TH/HPPO uses its cadaveric donor SAC to bill the OPO or the TH receiving the organ. Costs that may be used to develop the cadaveric donor SAC include, but are not be limited to: Costs of organs acquired from other THs or OPOs; costs of transportation of the excised organs; surgeons’ fees for excising cadaveric organs (currently limited to $1,250 for kidneys); costs of tissue typing services, including those furnished by independent laboratories; preservation and perfusion costs; general routine and special care service costs; and operating room other inpatient ancillary service costs. We are proposing to codify these provisions at proposed new § 413.404(b)(3)(ii) in new subpart L.

(3) Independent OPO Standard Acquisition Charge

In this proposed rule, we are proposing to codify, at proposed new § 413.404(c) in new subpart L, Medicare’s longstanding policy regarding IOPO standard acquisition charges for cadaveric donors, as set forth in PRM section 3108, and as discussed herein, because these policies remain relevant. An OPO is required under section 371(b)(1)(B) of the PHS Act (42 U.S.C. 273(b)(1)(C)) to have an agreement with the Secretary to be reimbursed under Medicare for the procurement of kidneys. The IOPO’s Medicare contractor establishes the kidney SAC, which is considered an interim rate as currently specified in § 413.200(d) (proposed to be added to new subpart L as § 413.420(d)), and which consists of an estimate of the reasonable and necessary costs the IOPO expects to incur procuring cadaveric kidneys during the IOPO’s cost reporting period. The contractor divides the estimated amount by the projected number of usable cadaveric kidneys procured. The IOPO’s Medicare contractor may adjust the kidney SAC during the year, if necessary, for cost changes. Because the contractor must establish and may adjust, if necessary, the kidney SAC, the IOPO cannot charge or change its kidney SAC without the contractor’s approval.

The Medicare contractor develops an IOPO’s initial kidney SAC based on the IOPO’s budget information. The kidney SAC for subsequent years is based on the IOPO’s cost report, that is, costs of operating during its prior cost reporting year. These standard charges are the basis for the interim rate (that is, the kidney SAC) paid by the TH to the IOPO. When the IOPO bills the TH for its kidney acquisition services, the TH
is responsible for paying the IOPO’s interim rate (that is, its kidney SAC). The IOPO’s submitted cost report is used to reconcile kidney acquisition costs pursuant to § 413.200(d) (proposed to be added as § 413.420(d)).

An OPO is required under (42 U.S.C. 273(b)(1)(B)) to have accounting and other fiscal procedures (as specified by the Secretary) necessary to assure the fiscal stability of the organization. As such, an IOPO establishes non-renal SACs based on its costs of procuring organs, similar to procedures set forth in section 3101, Certified Transplant Centers and Organ Acquisition Costs. An IOPO develops its SACs for each type of non-renal organs, by estimating the reasonable and necessary costs it expects to incur for services furnished to procure cadaveric donor non-renal organs during the IOPO’s cost reporting period. The IOPO divides this estimated amount by the projected number of cadaveric donor non-renal organs the IOPO expects to procure within its cost reporting period.

When an IOPO receives an organ from another IOPO, the receiving IOPO is responsible for paying the procuring IOPO’s SAC. The IOPO uses its own SAC and not the SAC paid to another IOPO, when billing a TH receiving the organ. For example, IOPO A has a SAC of $35,000 and IOPO B has a SAC of $50,000. IOPO A receives an organ from IOPO B and pays IOPO B their SAC of $50,000. IOPO A provides the organ to the TH and bills the TH its SAC of $35,000.

d. Accounting for Outpatient Costs and Laboratory Services

Outpatient costs including pre-transplant evaluation service costs were described for kidneys in ILs, as well as in the Medicare Claims Processing Manual and in a CMS Change Request.

After non-renal organs were covered for transplantation through a CMS Ruling (for heart transplantation) and through NCDs (other non-renal organs), payment policies were subsequently implemented through notice-and-comment rulemaking.

(1) Outpatient Costs

Section 3102.A of the PRM describes how to account for certain hospital outpatient costs applicable to a potential organ transplant. The TH’s organ acquisition costs include donor and recipient work-ups furnished prior to admission and costs of services rendered by interns and residents not in an approved teaching program. These costs would typically be billed to Medicare Part B. However, these costs are predominantly cadaveric donor related, incurred without an identifiable beneficiary, and are included in the TH’s organ acquisition cost center.

(2) Pre-transplant Evaluation and Laboratory Services

Section 3102.C of the PRM specifies that pre-transplant evaluation services for recipients and donors provided by the TH, including laboratory services, are paid through the organ acquisition costs of the TH. When pre-transplant laboratory tests are performed by the TH, the TH accumulates these costs in its organ acquisition cost center. The TH also includes the reasonable charges paid for physician tissue typing services provided to living donors and recipients.

(3) Histocompatibility Laboratory Services

Histocompatibility laboratories are required by the statute at section 1881(b)(2)(A) of the Act to be paid on a reasonable cost basis, in accordance with section 1861(v) of the Act. 42 CFR 413.200 sets forth the payment policy for services furnished by histocompatibility laboratories in connection with kidney acquisition and transplantation. When the laboratory services are performed by a histocompatibility laboratory, the Medicare contractor establishes interim rates which are used by the laboratory in billing a TH. The contractor disseminates information on the interim rates to all THs, OPOs, and other contractors, or posts the information on its website. The TH pays the laboratory the approved interim rate. When the laboratory bills an OPO for services, the OPO is responsible for paying the interim rate. The contractor determines the final payment to the

histocompatibility laboratory for kidney-related transplant tests by reconciling interim payments and reasonable costs during final settlement of the MCR.

e. Accounting for the Cost of Services Provided to Living Kidney Donors

Section 1881(d) of the Act sets forth Medicare coverage for living kidney donors. Under section 1881(d) of the Act, any individual who donates a kidney for transplant surgery shall be entitled to benefits under parts A and B of Medicare with respect to such donation. The Act requires that reimbursement for the reasonable expenses incurred by such an individual with respect to a kidney donation shall be made (without regard to the deductible, premium, and coinsurance provisions), in such manner as may be prescribed by the Secretary in regulations, for all reasonable preparatory, operation, and postoperation recovery expenses associated with such donation. It further provides that payments for postoperation recovery expenses shall be limited to the actual period of recovery. Medicare’s coverage is limited to those donor expenses that are incurred directly in connection with the kidney donation.

(1) Hospital Services to a Living Kidney Donor

When a living donor is admitted to a hospital (before admission for excising the donor kidney) for a medical evaluation in anticipation of a kidney donation, costs of all hospital services applicable to medical evaluation are considered kidney acquisition costs. When the living donor subsequently enters the hospital for the actual excision, the hospital costs of services rendered to the donor will continue to be treated as kidney acquisition costs under Part A.

The donor of a kidney for a Medicare transplant is covered for an unlimited number of days of inpatient care in connection with the organ removal operation. Days of inpatient hospital care used by the donor in connection with the organ removal operation are not charged against either party’s utilization record.

(2) Physician Services to a Living Kidney Donor

When a living donor is admitted to a hospital (before admission for excising the donor kidney) for a medical
evaluation in anticipation of a kidney donation, costs of all physicians’ services applicable to medical evaluation are considered kidney acquisition costs. When a living donor is admitted to a hospital for the kidney excision, physician services are no longer considered kidney acquisition costs and are not reimbursable under Part A. Under the Medicare Physician Fee Schedule, surgical excision of living donor kidneys is included in the global surgery policy, with a reasonable post-surgical follow-up defined as 90 days. This standard 90-day post-operative period includes all services by the primary surgeon during this period unless the service is for a condition or issue unrelated to the diagnosis for which the surgery is performed or is for an added course of treatment other than normal recovery from the surgery. During the donor’s inpatient stay for the excision surgery and during any subsequent donor inpatient stays resulting from a direct complication of the organ donation, physician services are billed under Part B. They are billed in the normal manner but under recipient’s MBI at 100 percent of the fee schedule with no deductible or coinsurance.1486

(3) Living Kidney Donor Follow-Up

Costs incurred by the TH for routine kidney donor follow-up care are included in the TH’s organ acquisition cost center.

For routine follow-up care, the period of postoperative recovery ceases when the donor no longer exhibits symptoms related to the kidney donation. Beyond the reasonable and necessary 90-day global payment period, routine follow-up services are billed to Part B using the recipient’s MBI. Routine follow-up services billed to Medicare by a physician other than the operating physician for up to 3 months following donation surgery must be billed using the recipient’s MBI. The Medicare Administrative Contractor will review claims for services rendered more than 3 months after kidney donation surgery. Medicare may cover routine follow-up examinations up to 6 months after the kidney donation to monitor for possible complications. In all of these situations, the kidney donor is not responsible for co-insurance or deductible amounts.1489

The OPTN policy provides for follow-up visits, which occur at 6 months, 12 months, and 24 months post-donation. These follow-up visits are not allowable nor reportable as organ acquisition costs on the MCR and cannot be billed to Medicare. These follow-up visits are for collecting longer-term data on the effects of living donation on the donor rather than for meeting medical needs of the donor.1490

(4) Proposals Related to Living Kidney Donor Complications

Living kidney donor complications related to the surgery to remove a kidney, which occur after the date of discharge, are not considered kidney acquisition costs. Living kidney donor complications are statutorily authorized to be paid under Part A or Part B in section 1881(d) of the Act, with no liability for deductibles or coinsurance.1491 In accordance with IL 73–25,1492 Medicare covers costs incurred for living kidney donor complications only if they are directly attributable to the kidney donation. Costs incurred for complications arising after the kidney donor’s discharge date are billed under the Medicare transplant recipient’s MBI, including facility costs and physician services. The contractor reviews costs for kidney donor complications billed under the transplant recipient’s MBI. We are proposing to codify this longstanding policy by adding 42 CFR 413.402(c) to new subpart L.

f. Accounting for the Cost of Services Provided to Transplant Recipients

Certain costs related to organ transplant recipients are not organ acquisition costs, but instead are billed under Part B to the transplant recipient’s MBI. These costs include standard backbench preparation services; physician services for the surgeon who performs the transplant (and sometimes performs other surgical procedures at the time of the transplant) and provides 90 days of post-operative surgical care;1493 and/or immunosuppressant therapy management; and recipient laboratory services which occur after discharge from the hospital. See the Medicare Claims Processing Manual, IOM 100–04, chapter 12, sections 30.6.3, 40.1, and 40.4 for more details on these services.1494

1486 See Addendum B in 59 FR 63515, for CPT code 50360, which is for living donor kidney excision.
1487 42 CFR 410.55 and 410.163.
1489 42 CFR 410.163.
1491 Section 1881(d) of the Act; 42 CFR 409.18, 409.89 for Part A costs; 42 CFR 410.55 and 410.163 for Part B costs.
1494 42 CFR 410.163.
1496 42 CFR 410.163.
h. Proposed Calculation of Medicare’s Share of Organ Acquisition Costs, Counting of Organs

(1) General

Medicare currently calculates its share of organ acquisition costs for THs/HOPOs by multiplying the total allowable organ acquisition costs by the ratio of Medicare usable organs (the numerator) to total usable organs (the denominator) reported on the Medicare hospital cost report.1496 To ensure that a TH/HOPO’s organ acquisition costs are accurately allocated to the Medicare Program, THs/HOPOs must accurately count and report Medicare usable organs and total usable organs on their MCRs.

For IOPOs, Medicare currently calculates its share of kidney acquisition costs by multiplying the total allowable kidney acquisition costs by the ratio of Medicare usable kidneys (the numerator) to total usable kidneys (the denominator) reported on the Medicare IOPO cost report.1497 Similarly, IOPOs must accurately count and report on their MCRs the number of kidneys they procure and furnish to THs or other OPOs, to ensure that kidney acquisition costs are accurately allocated to the Medicare Program.

(2) Medicare Usable Organs, Total Usable Organs, Medicare Usable Kidneys, and Total Usable Kidneys

Currently, Medicare reimburses THs/HOPOs for their reasonable costs incurred to acquire “Medicare usable organs.” For Medicare to calculate its share of organ acquisition costs, currently the THs/HOPOs must include the following as Medicare usable organs: 1498 (1) Organs transplanted into Medicare beneficiaries; (2) organs transplanted into Medicare beneficiaries that were partially paid by a primary insurance payor in addition to Medicare; (3) organs sent to other THs or IOPOs; (4) kidneys transplanted into Medicare Advantage beneficiaries for dates of service on or after January 1, 2021;1499 (5) kidneys sent to United States military renal transplant centers (MRTCs) with a reciprocal sharing agreement with the HOPO in effect prior to March 3, 1988, and approved by the contractor; and (6) pancreata procured for the purpose of acquiring pancreatic islet cells for transplantation into Medicare beneficiaries participating in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial pursuant to section 733 of the MMA, as discussed in section X.B.2.g of this proposed rule.1500 (For counting purposes, the TH/HOPO does not count pancreata procured for islet cell transplant as a solid organ, but counts the number of Medicare beneficiaries who received these islet cell injections as the proxy for Medicare usable organs. For example, if a TH/HOPO procured pancreata for islet cell transplant and injected these islet cells into three Medicare beneficiaries and four non-Medicare patients during its cost reporting period, the TH/HOPO enters three in the Medicare usable organ count, and seven in the total usable organ count, on its Medicare hospital cost report.)

Medicare does not share in the cost of acquiring organs not transplanted into Medicare beneficiaries (except those organs designated for transplant but determined to be unusable). Organs not transplanted into Medicare beneficiaries must be counted as total usable organs in the denominator of the fraction of Medicare usable organs to total usable organs. THs/HOPOs must include the following as total usable organs: (1) Medicare usable organs; (2) organs excised with the intention to be used for research; (3) organs excised and either transplanted or furnished to other THs or OPOs; (4) organs obtained from another OPO or transplant hospital and either transplanted or furnished to other THs or OPOs; (5) organs sent to veterans’ hospitals or organs sent outside the United States pursuant to 42 CFR 413.203; (6) organs transplanted into non-Medicare beneficiaries, pursuant to § 413.203; (7) organs for which the transplant was totally or partially paid by primary insurance other than Medicare; (8) organs for which the transplant was covered by a Medicare Advantage plan for dates of service prior to January 1, 2021; (9) kidneys sent to United States MRTCs with or without a contractor-approved reciprocal sharing agreement with the HOPO in effect prior to March 3, 1988; and (10) pancreata procured for the purpose of acquiring pancreatic islet cells for transplantation into participants in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial pursuant to the MMA, as discussed in section X.B.2.g of this proposed rule.

Medicare also currently reimburses IOPOs for their reasonable costs incurred to procure “Medicare kidneys.” Organ acquisition costs are not paid directly by Medicare to an IOPO. The IOPO is reimbursed for its services by the TH, subject to later reconciliation by Medicare for kidneys. Medicare currently calculates its share of kidney acquisition costs by multiplying the total allowable kidney acquisition costs by the ratio of Medicare usable kidneys (the numerator) to total usable kidneys (the denominator) reported on the Medicare IOPO cost report. For Medicare to calculate its share of Medicare kidney acquisition costs, the IOPO must include the following as Medicare kidneys: (1) Kidneys sent to THs; (2) kidneys sent to certified OPOs; (3) kidneys sent to United States MRTCs with a reciprocal sharing agreement with the IOPO in effect prior to March 3, 1988, and approved by the contractor. Medicare kidneys do not include kidneys sent to VA hospitals, military hospitals, or kidneys sent to foreign countries or transplanted into non-Medicare beneficiaries, pursuant to 42 CFR 413.202.

IOPOs must also count total usable kidneys in the denominator of the fraction of Medicare usable kidneys to total usable kidneys. IOPOs must include the following in total usable kidneys: (1) Medicare usable kidneys; (2) kidneys procured with the intention to be used for research; (3) kidneys procured and furnished to other THs or OPOs; (4) kidneys procured from another OPO or transplant hospital and either transplanted or furnished to other THs or OPOs; (5) kidneys sent to veterans’ hospitals or organs sent outside the United States pursuant to 42 CFR 413.203; (6) kidneys transplanted into non-Medicare beneficiaries, pursuant to § 413.203; (7) kidneys for which the transplant was covered by a Medicare Advantage plan for dates of service prior to January 1, 2021; and (7) kidneys sent to United States MRTCs with or without a contractor-approved reciprocal sharing agreement with the IOPO in effect prior to March 3, 1988. Currently THs/HOPOs that excise organs and send them to other THs or IOPOs, or kidneys sent to MRTCs pursuant to an approved reciprocal sharing agreement in effect prior to March 3, 1988, are presumed to be transplanted into Medicare beneficiaries, even if they are not.

1496 Pursuant to PRM § 3115.A. and CMS Pub. 15–2, chapter 33, section 3312.
1497 CMS Pub. 15–2, chapter 33, section 3312.
1499 CMS Pub. 15–2, chapter 33, section 3312.
1499 Section 17006 of the 21st Century Cures Act, Pub. L. No. 114–255. Section 17006(c) of the Cures Act 2, chapter 40, section 4028.3.
1500 CMS Pub. 15–2, chapter 40, section 4028.3.
1501 Id.

1501 Id.
Similarly, some kidneys that an IOPO procures and sends to other IOPOs, THs, or MRTCs pursuant to an approved reciprocal sharing agreement in effect prior to March 3, 1988, are presumed to be transplanted into Medicare beneficiaries, even if they are not. These categories do not have a distinction to determine whether the organs are actually transplanted into Medicare beneficiaries. In this regard, Medicare organ acquisition payment policy includes the presumption that some organs are transplanted into Medicare beneficiaries, despite the category name “Medicare usable organs” or “Medicare kidneys.” As a result, through unintended consequences, Medicare currently shares in the organ acquisition costs for some organs that are not actually transplanted into Medicare beneficiaries.

When Medicare added the ESRD benefit to Medicare coverage in 1972, Medicare presumed that most kidney transplant recipients would be Medicare beneficiaries receiving the ESRD benefit, and thus Medicare would pay a larger share of kidney acquisition costs. As Medicare added benefits for transplantation of non-renal organs and included the costs to procure non-renal organs, Medicare cost reporting instructions incorporated the presumption that the ultimate transplant recipient was unknown, but likely a Medicare beneficiary. Thus, when a TH sends an organ to another TH or to an OPO, or when an OPO sends an organ to another OPO or TH, Medicare assumed that some of the unknown transplant recipients are Medicare beneficiaries, and permits those organs to be counted as Medicare usable organs in the numerator of the fraction for Medicare usable organs to total usable organs, to assure that Medicare is paying its share of organ acquisition costs.

However, Medicare declared its intention and a methodology to calculate its share of acquisition costs, for kidneys transplanted into Medicare beneficiaries only, in a 1978 Federal Register final rule with comment. Specifically, kidney transplant performed on a Medicare beneficiary, the transplanting hospital shall receive a prescribed amount of reimbursement from Medicare for the pre-transplantation services of an OPA [organ procurement organization] or laboratory having such an agreement. The 1978 final rule set forth that an OPO’s cost report must provide a complete accounting of the cost incurred by the agency or laboratory in providing covered services, the total number of Medicare beneficiaries for whom services were furnished by the agency or laboratory, and any other necessary data to enable the intermediary to determine the reasonable cost of covered services to Medicare beneficiaries. Additionally, if the intermediary determines that the interim rate payments exceeded the reasonable cost of the services furnished, then the OPA or histocompatibility laboratory must pay the excess amount per Medicare patient to the intermediary. These multiple declarations in the 1978 final rule establish Medicare’s intention to pay for kidney acquisition costs incurred for kidneys transplanted into Medicare beneficiaries and were originally codified at 42 CFR 405.436 and later moved to 42 CFR 413.178 (currently reserved).

The longstanding policy that Medicare must only share in organ and kidney acquisition costs for Medicare beneficiaries is also set forth in 42 CFR 413.202 and 413.203. Section 413.202 requires OPOs to separate from Medicare allowable costs, acquisition costs for procuring kidneys sent to foreign transplant centers and kidneys transplanted in non-Medicare patients. Similarly, § 413.203 requires THs to separate from Medicare allowable costs, acquisition costs for procuring organs sent to foreign transplant centers and organs transplanted in non-Medicare patients. In a 1988 proposed rule, CMS expressed belief that allowing all kidneys to be counted as Medicare kidneys was not aligned with anti-cross subsidization principles set forth in section 1861(v)(1)(A) of the Act. CMS stated that the Medicare program has always paid the total costs of OPAs [OPOs] because we assumed that all kidneys procured were for Medicare beneficiaries. However, we now realize that this assumption is incorrect and that technology has allowed a significant number of kidneys to be shipped overseas. Since the Medicare program has been paying the cost of procuring kidneys shipped overseas or transplanted into non-Medicare beneficiaries, we believe that some action needs to be taken. We believe it is necessary to amend the regulations in order to effectuate the statutory principles embodied in section 1861(v)(1)(A) of the Act. Section 1861(v)(1)(A) of the Act requires that the cost of services be borne by the appropriate payor. Accordingly, the cost associated with the kidneys not used by Medicare beneficiaries must be borne by the responsible individual or third party payor. Medicare is precluded from paying any costs associated with kidneys not used by Medicare beneficiaries. 53 FR 6672 at 6673 (March 2, 1988).

Medicare’s decades-old presumption that most kidney transplant recipients are Medicare beneficiaries was also applied to non-renal organs because of the lack of organ tracking capabilities over the years and has led Medicare to reimburse THs and OPOs for organ acquisition costs for organs that were not actually transplanted into Medicare beneficiaries. Similar to the beliefs expressed in the 1988 proposed rule, we believe that organ tracking capabilities allow transplant hospitals and OPOs to discern organ recipients’ health insurance payor information so that organ acquisition costs can be more appropriately assigned to the Medicare program for organs transplanted into Medicare beneficiaries.

The Scientific Registry of Transplant Recipients (SRTR) collects and maintains data that identifies, among other things, transplant recipients and their health insurance payors. Data obtained from SRTR show the percentage of transplants where Medicare was the recipients’ payor to all transplant recipients’ payors, by organ type. We compared the SKTR data for years 2017 and 2018, to the Medicare share ratio for Medicare usable organs (including kidneys) to total usable organs, for 2017 and 2018. Table X.B.-01 reflects these data. In the majority of organ types, the SKTR percentages of transplant recipients who were actual Medicare beneficiaries were lower than the Medicare share percentages for those same years. Although there is a difference in the calendar year data from SRTR and the cost reporting fiscal year data from the MCR, these data show that the majority of SRTR’s percentage of Medicare transplant recipients was less than the percentages of Medicare’s share compared to 2017 and 2018 submitted MCR data from the Worksheet D-4.

1502 Intermediary Letter 73–25 (July 1973) and 54 FR 5619, February 6, 1989.  
TABLE X.B.-01. OVERALL ORGAN-SPECIFIC RATIOS, MEDICARE SHARE VS. SRTR, 2017 AND 2018

<table>
<thead>
<tr>
<th>Organ Type</th>
<th>2017 Medicare Ratio (Medicare Usable Organs/Total Usable Organs)</th>
<th>2017 SRTR Ratio of Actual Transplants with Medicare as Payor</th>
<th>2018 Medicare Ratio (Medicare Usable Organs/Total Usable Organs)</th>
<th>2018 SRTR Ratio of Actual Transplants with Medicare as Payor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kidney</td>
<td>68.2%</td>
<td>58.9%</td>
<td>67.8%</td>
<td>58.6%</td>
</tr>
<tr>
<td>Heart</td>
<td>42.0%</td>
<td>31.6%</td>
<td>42.8%</td>
<td>33.0%</td>
</tr>
<tr>
<td>Liver</td>
<td>39.1%</td>
<td>28.4%</td>
<td>38.6%</td>
<td>29.2%</td>
</tr>
<tr>
<td>Lung</td>
<td>44.2%</td>
<td>43.9%</td>
<td>46.6%</td>
<td>45.7%</td>
</tr>
<tr>
<td>Pancreas</td>
<td>61.6%</td>
<td>49.1%</td>
<td>58.0%</td>
<td>45.8%</td>
</tr>
<tr>
<td>Intestine</td>
<td>18.1%</td>
<td>14.7%</td>
<td>14.9%</td>
<td>15.4%</td>
</tr>
</tbody>
</table>

We are aware that the capability exists to track the location and disposition of organs, from the time organs are excised from donors until they are transplanted into recipients. Organ tracking capability allows THs and OPOs the ability to know the identity of all organ transplant recipients and the donor from whom the recipient’s transplanted organ was excised. Knowing the identity of all organ transplant recipients, and the donor from whom the recipient’s transplanted organ was excised, allows THs and OPOs the ability to also know whether a transplant recipient is a Medicare beneficiary. OPTN policy provides that OPOs use organ tracking capability, and some THs also optionally use organ tracking capability. Per OPTN policies, THs and OPOs report information to the OPTN on the identity of transplant recipients and donors. Additionally, the OPTN data collection forms show what data elements the OPTN currently collects. The OMB form NO. 0915–0157 collects the recipient’s and payor’s information for the transplant. The identity of the recipient is required to be reported. THs, histocompatibility laboratories, and organ procurement organizations enter data into the OPTN database in UNet, a centralized computer network that links all 57 OPOs, 254 THs and 150 histocompatibility labs to list patients for transplant, match patients with available donor organs and submit required OPTN data. By way of knowing the identity of the recipient, the providers can further discern whether a recipient is a Medicare beneficiary. Therefore, it is possible for THs and OPOs to report, on their respective MCRs, the number of organs and kidneys transplanted into Medicare beneficiaries, eliminating the reason for Medicare organ acquisition payment policy to presume that some organs and kidneys are transplanted into Medicare beneficiaries, when they are not.

We believe it is necessary to update Medicare organ acquisition payment policy to recognize organ tracking capabilities and the ability for OPOs and THs/HOPOs to discern the identity of the recipient into whom the excised organ is transplanted, and whether that recipient is a Medicare beneficiary. Doing so will result in Medicare more accurately paying its share of organ acquisition costs. We believe it is necessary to require that OPOs and THs report on their cost reports only organs and kidneys transplanted into Medicare beneficiaries as Medicare usable organs and Medicare kidneys, respectively. Doing so would help safeguard the Medicare Trust Fund and ensure that Medicare appropriately pays only its share of organ acquisition costs, and that acquisition costs for organs not transplanted into Medicare beneficiaries are not borne by Medicare. The Medicare reasonable cost principles, upon which Medicare organ acquisition payment policy is based, and the prohibition of cross-subsidization articulated in section 1861(v) of the Act require the cost of services be borne by the appropriate payor.

While all OPOs, and some THs, use an organ tracking capability, we believe that THs that do not use an organ tracking capability can also ascertain the exact recipient, and thus recipient’s payor, when an organ is excised in their hospital and sent to another TH or OPO. We understand that some THs that do not use an organ tracking capability still track organs they send to other THs or OPOs by using manual, written methodologies. In this regard, THs can determine the organ recipient from their records and by verifying the insurance payor of the recipient with the transplant recipient’s hospital. Additionally, THs can contact the OPO to which they gave the organ, and because the OPTN directs OPOs to use an organ tracking system, the OPO can relay the recipient’s information and recipient’s payor to the TH. Likewise, Medicare contractors, who review MCRs submitted by THs and OPOs, can confirm Medicare usable organs and Medicare usable kidneys reported by THs and OPOs with supporting documentation from provider’s records.

Pursuant to § 413.202, Medicare kidneys include, for cost reporting statistical purposes and counting, kidneys procured by an OPO and sent to a MRTC for transplant, pursuant to certain long-standing arrangements that existed before March 3, 1988, approved by the contractor. However, due to organ tracking capability, and to achieve equitable treatment among all OPOs (for OPOs that do not have a long standing arrangements with military THs), and to also achieve appropriate Medicare expenditures for kidney acquisition

---

1506 https://unos.org/technology/unet/.
costs, we no longer believe it is appropriate to allow such kidneys to be designated as Medicare kidneys under such arrangements. Because organ tracking capability permits OPOs the ability to know a donor’s transplant recipient, and thus their payer’s identity, it is no longer necessary for Medicare to continue to apply its longstanding policy to deem and count all kidneys an OPO excises at, or provides to, a MRTC as Medicare kidneys for purposes of apportioning Medicare’s share of the kidney acquisition costs. Thus, we are proposing to change our regulation with respect to MRTCs.

For the reasons discussed in this section, in this proposed rule we are proposing to add §413.408(a) to new subpart L to specify that THs/HOPOs must accurately count and report Medicare usable organs and total usable organs on their Medicare hospital cost reports to ensure that costs to acquire Medicare usable organs are accurately allocated to Medicare. We are also proposing to add §413.408(b) to new subpart L to specify that for cost reporting periods beginning on or after October 1, 2021, for THs/HOPOs, Medicare usable organs include only organs transplanted into Medicare beneficiaries (including kidneys for Medicare Advantage beneficiaries with dates of service after January 1, 2021), organs for which Medicare has a secondary payer liability for the organ transplant, and pancreata procured for the purpose of acquiring pancreatic islet cells acquired for transplantation for Medicare beneficiaries participating in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial.

We are also proposing to add §413.408(c) to new subpart L to specify that for cost reporting periods beginning on or after October 1, 2021, for THs/HOPOs, total usable organs include: (1) Medicare usable organs; (2) organs excised with the intention to be used for research; (3) organs excised and either transplanted or furnished to other transplant hospitals or OPOs; (4) organs obtained from another OPO or transplant hospital and either transplanted or furnished to other transplant hospitals or OPOs; (5) organs sent to veterans’ hospitals or organs sent outside the United States; (6) organs transplanted into non-Medicare beneficiaries; (7) organs for which the transplant was totally or partially paid by primary insurance other than Medicare; (8) organs for which the transplant was covered by a Medicare Advantage plan for dates of service prior to January 1, 2021; (9) kidneys sent to United States MRTCs with or without a contractor-approved reciprocal sharing agreement with the HOPO in effect prior to March 3, 1988; and (10) pancreata procured for the purpose of acquiring pancreatic islet cells for transplantation into participants in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial.

We are also proposing to remove §413.203, and add §413.408(d) to new subpart L, so that all organ acquisition policies are housed together, to specify that a TH’s total costs for all organs are reduced by the costs associated with procuring organs that are sent to foreign transplant centers or transplanted in patients other than Medicare beneficiaries; and to specify that THs must separate costs for procuring organs that are sent to foreign transplant centers and organs transplanted in patients other than Medicare beneficiaries from Medicare allowable costs prior to final cost settlement by the Medicare contractors. The separation of cost is achieved using the Medicare ratio set forth in proposed §413.408(e).

We are also proposing to add §413.408(e) to new subpart L to specify that for cost reporting periods beginning on or after October 1, 2021, Medicare’s share of organ acquisition costs for a TH/HOPO is calculated by multiplying the total allowable organ acquisition costs by the ratio of Medicare usable organs transplanted into Medicare beneficiaries, as specified in proposed §413.408(b), to total usable organs, as specified in proposed §413.408(c).

For rules pertaining to counting kidneys and calculating Medicare’s share of kidney acquisition costs for IOPOs, in this proposed rule, we are proposing to add §413.410(a) to new subpart L to specify that IOPOs must accurately count and report Medicare usable kidneys and total usable kidneys on their Medicare IOPO cost reports to ensure that costs to acquire Medicare usable kidneys are accurately allocated to Medicare. We are also proposing to add §413.410(b) to new subpart L to specify that, for cost reporting periods beginning on or after October 1, 2021, for IOPOs, Medicare kidneys include only kidneys transplanted into Medicare beneficiaries.

We are also proposing to add §413.410(c) to new subpart L to specify that for cost reporting periods beginning on or after October 1, 2021, for IOPOs, total usable kidneys include: (1) Medicare usable kidneys; (2) kidneys procured with the intention to be used for research; (3) kidneys procured and furnished to other transplant hospitals or OPOs; (4) kidneys procured from another OPO or transplant hospital and either transplanted or furnished to other transplant hospitals or OPOs; (5) kidneys sent to veterans’ hospitals or organs sent outside the United States; (6) kidneys for which the transplant was covered by a Medicare Advantage plan for dates of service prior to January 1, 2021; and (7) kidneys sent to United States MRTCs with or without a contractor-approved reciprocal sharing agreement with the IOPO in effect prior to March 3, 1988.

We are proposing to remove §413.202 and add §413.410(d) to new subpart L, to specify that an IOPO’s total costs for all kidneys is reduced by the costs associated with procuring kidneys sent to foreign transplant centers or transplanted in patients other than Medicare beneficiaries; and to specify that IOPOs must separate costs for procuring kidneys sent to foreign transplant centers and kidneys transplanted in patients other than Medicare beneficiaries from Medicare allowable costs prior to final settlement by the Medicare contractors. The separation of cost is achieved using the Medicare ratio set forth in proposed §413.410(e).

We are also proposing to add §413.410(e) to new subpart L to specify that for cost reporting periods beginning on or after October 1, 2021, Medicare’s share of kidney acquisition costs is calculated by multiplying the total allowable kidney acquisition costs by the ratio of Medicare usable kidneys, as specified in proposed §413.410(b), to total kidneys, as specified in proposed §413.410(c).

i. Proposals Related to Intent To Transplant, and Counting En Bloc, Research, and Discarded Organs

In this section, we are proposing to add §413.412, to new subpart L, to specify our longstanding policies set forth in CMS Ruling 1543–R, issued December 21, 2006, and PRM–1, sections 3111 and 3115, pertaining to intent to transplant, counting en bloc organs, research organs, and discarded organs for THs and OPOs. These policies provide for the proper calculation of Medicare’s share of organ acquisition costs that are used for the appropriate allocation of organ acquisition costs on the MCR. The calculation of Medicare’s share of organ acquisition costs is discussed in section X.B.2.h.(1) of this proposed rule. The methodology of counting organs to calculate Medicare’s share of organ acquisition costs is used for the
allocation of organ acquisition costs on the MCR and differs from Medicare’s organ counting policy to assess OPOs’ performance, which is set forth under the OPO CICs, 42 CFR part 486, subpart G. To calculate Medicare’s share of organ acquisition costs, when organ procurement is attempted, but no organ is actually retrieved (or the organ is instead discarded or donated for research), proper counting of the organ must occur to ensure that overhead costs are appropriately allocated to Medicare and non-Medicare payors. However, cost allocation is not a factor when counting organs for evaluating an OPO’s performance under Medicare’s CIC.

(1) Principle of Intent To Transplant

Medicare presumes that THs and OPOs intend to procure all donor organs that are medically suitable for transplant. We are proposing to add §413.412(a)(1) to new subpart L, to specify, for organ acquisition payment purposes, an organ is intended for transplant when the OPO or TH designates it for transplant prior to the time the donor enters the hospital’s operating room for surgical excision/recovery of the organ(s). Regardless of whether the OPO or TH procures organs for transplant, it incurred cost in attempting to procure organs. We are proposing to add §413.412(a)(2) to new subpart L, to specify, OPOs and THs must identify the costs associated with the recovered and unrecovered organs and apportion those costs to the appropriate cost centers by organ type.

(2) Counting and Cost Allocation of En Bloc Organs

Our policy for counting en bloc organs for cost allocation purposes is set forth in PRM–1 section 3115. We are proposing to add §413.412(b) to new subpart L, to specify our policy for counting en bloc organs for Medicare cost allocation purposes and to specify that en bloc organs can be en bloc lungs or en bloc kidneys. We are proposing to add §413.412(b)(1) to new subpart L to specify that OPOs and THs count en bloc lungs or en bloc kidneys procured and transplanted en bloc (two organs transplanted as one unit) as one total usable organ. En bloc organs transplanted into a Medicare beneficiary count as one Medicare usable organ or one Medicare usable kidney, in accordance with the proposed Medicare organ counting policy in section X.B.2.h.(2). of this proposed rule.

We are also proposing to add §413.412(b)(2) to new subpart L to specify that OPOs and THs count en bloc lungs and en bloc kidneys procured en bloc but separated and transplanted into two different recipients as two total usable organs. For each organ transplanted into a Medicare beneficiary, count each as one Medicare usable organ or one Medicare usable kidney, in accordance with the proposed Medicare organ counting policy in section X.B.2.h.(2). of this proposed rule.

(3) Counting and Cost Allocation of Research Organs

Our longstanding policy regarding counting of organs excised and used for research for Medicare cost allocation purposes is set forth in PRM–1 sections 3111 and 3115. We are clarifying that for organ acquisition cost allocation purposes, a “research organ” is an organ procured and used for research regardless of whether it is transplanted as part of clinical care (with the exception of pancreata previously discussed in section X.B.2.h.(2)) of the preamble of this proposed rule. We are proposing to add §413.412(c) to new subpart L to specify that organs used for research are not counted as Medicare usable organs in Medicare’s share of organ acquisition costs (except pancreata previously discussed in section X.B.2.h.(2)). of the preamble of this proposed rule. However, we are also clarifying that Medicare shares in the costs of organs that are designated for transplant prior to the time the donor entered the hospital’s operating room, but determined to be unusable and donated to research. The costs incurred are allocated amongst all remaining usable organs.

We are proposing to add §413.412(c)(1)(i) to new subpart L to specify that OPOs and THs count organs designated for research activities prior to the time the donor entered the hospital’s operating room for surgical removal of the organs as Medicare usable organs. We are also proposing to add §413.412(c)(1)(ii) to specify that OPOs and THs count organs designated for research activities prior to the time the donor entered the hospital’s operating room for surgical removal of the organs, as total usable organs.

We are proposing to add §413.412(c)(2) to new subpart L to specify that OPOs and THs do not count organs designated for transplant prior to the time the donor entered the hospital’s operating room for surgical removal of the organs but subsequently determined to be unusable and donated to research, as Medicare usable organs or total usable organs.

We are also proposing to add §413.412(d) to new subpart L to specify that an organ is not counted as a Medicare usable organ or a total usable organ if the excising surgeon determines, upon initial inspection or after removal of the organ, that the organ is not viable and not medically suitable for transplant and the organ is determined to be unusable and discarded. This includes organs that are determined to be unusable and subsequently donated to research as previously described in section X.B.2.i.(3). of this proposed rule.

j. Proposals Related to Medicare as Secondary Payer—Organ Acquisition Costs and Medicare Organ Count

If a Medicare beneficiary has a primary health insurer other than Medicare and that primary health insurer has primary liability for the transplant and organ acquisition costs, the Medicare Program may share a liability for organ acquisition costs as a secondary payer in certain instances. Medicare prohibits secondary payment if the provider is either obligated to accept, or voluntarily accepts, as payment in full, a primary payment that is less than its charges. See 42 CFR 411.32(b). When a provider or supplier is obligated to accept as full payment an amount less than its charges, Medicare considers that lower amount to be the provider’s charges. (For more information see the October 11, 1989 final rule (54 FR 47128)). Medicare organ acquisition cost reimbursement policy when beneficiaries have a primary insurer other than Medicare, is set forth in PRM–1 section 3104, Accounting for the Cost of Medicare Secondary Payer. In this proposed rule, we are proposing to codify into the regulations the organ acquisition cost reimbursement policy with regard to Medicare secondary payer policy, as set forth in PRM–1 section 3104.

To determine whether the provider is contractually obligated to accept the primary insurer’s payment as payment in full, and thus whether Medicare has zero liability as a secondary payer, it is necessary to review the provider or
supplier’s agreement with the primary insurer. If the primary insurer’s agreement requires the TH to accept the primary insurer’s payment as payment in full for the transplant and the associated organ acquisition costs, Medicare has zero liability as a secondary payer with no payment obligation for the transplantation costs or the organ acquisition costs, and the organ at issue is not counted as a Medicare usable organ.

When the primary insurer’s agreement does not require the provider to accept the payment from the primary insurer as payment in full and the payment the provider receives from the primary insurer for the transplant and the organ acquisition costs is insufficient to cover the entire cost, Medicare may have a secondary payer liability for the organ acquisition costs. To determine whether Medicare has a secondary payer liability, it is necessary for the provider to submit a bill to its Medicare contractor and to compare the total cost of the transplant, including the transplant DRG amount and the organ acquisition costs, to the payment received from the primary payer. The provider’s Medicare remittance advice may or may not show that Medicare has a liability because the remittance advice only reflects the transplant portion of the payment. Thus, the provider will need to compare the total Medicare cost (the transplant DRG and the organ acquisition costs) to the payment from the primary payer to determine whether Medicare has a liability for the organ acquisition costs. If the payment from the primary payer is less than the transplant DRG and the organ acquisition costs, there is a Medicare secondary payer liability and the organ must not be counted as a Medicare usable organ. If the payment from the primary payer is greater than the cost of the transplant DRG and the organ acquisition costs, there is no Medicare liability and the organ must not be counted as a Medicare usable organ. In this circumstance, the payment from the primary payer is prorated between the transplant DRG amount and the organ acquisition payment. If the organ is counted as Medicare usable, the organ acquisition portion of the primary payment must be included on the appropriate line as a revenue offset on the TH’s MCR (currently Form CMS–2552). This is consistent with the cost reporting instructions in CMS Pub. 15–2, (PRM–2) chapter 40, section 4028.

Consider the following example as an illustration of Medicare’s payment of organ acquisition costs as a secondary payer. A TH transplants a patient that has private health insurance and Medicare. The private health insurance pays the TH $70,000 for the transplant and the organ acquisition costs; there is no requirement in the primary insurer’s agreement with the provider for the TH to accept this payment as payment in full. If Medicare was the primary payer, the combined payment to the TH would have been $100,000 ($60,000 for the transplant and $40,000 for the organ acquisition costs). The TH compares the primary payer payment to the total amount Medicare would have paid if it had been primary (the transplant DRG and organ acquisition costs). The TH prorates the primary payer’s payment of $70,000 between a portion of the transplant DRG and a portion of the organ acquisition costs. The TH determines the primary payer amount for the transplant DRG payment is $42,000 ($70,000 payment from the primary payer × $60,000 for the transplant portion from Medicare/ $100,000 combined Medicare payment) and for organ acquisition costs is $28,000 ($70,000 payment from the primary payer × $40,000 for the organ acquisition portion from Medicare/ $100,000 combined Medicare payment). The TH counts the organ as a Medicare usable organ on its MCR and offsets the primary payment amount ($28,000) as revenue received, thereby reducing Medicare’s liability. In this proposed rule, we are proposing to add §413.414(a) to new subpart L to set forth the general principle that if a Medicare beneficiary has a primary health insurer other than Medicare and that primary health insurer has primary liability for the transplant and organ acquisition costs, the Medicare Program may share a liability for organ acquisition costs as a secondary payer in certain instances. To determine whether Medicare has liability as a secondary payer for organ acquisition costs, it is necessary to review the TH’s agreement with the primary insurer.

We are also proposing to add §413.414(b) to new subpart L to set forth the circumstances when Medicare has no secondary payer liability for organ acquisition costs. If the primary insurer’s agreement requires the TH to accept the primary insurer’s payment as payment in full for the transplant and the associated organ acquisition costs, Medicare has zero liability as a secondary payer with no payment obligation for the transplantation costs or the organ acquisition costs, and the organ at issue is not a Medicare usable organ. We are also proposing to add §413.414(c) to new subpart L to set forth the policy for when Medicare may have a secondary payer liability for organ acquisition costs, which is based upon the provider’s agreement with the primary insurer that does not require the provider to accept the payment from the primary insurer as payment in full, and the payment from the primary payer for the transplant and the organ acquisition costs is less than the provider’s costs for the transplant and the organ acquisition costs. When the primary insurer’s agreement does not require the TH to accept the payment from the primary insurer as payment in full and the payment the TH receives from the primary insurer for the transplant and organ acquisition costs is insufficient to cover the entire cost, Medicare may have a secondary payer liability for the organ acquisition costs. To determine whether Medicare has a secondary payer liability for the organ acquisition costs, it is necessary for the TH to submit a bill to its Medicare contractor and to compare the total cost of the transplant, including the transplant DRG amount and the organ acquisition costs, to the payment received from the primary payer. If the payment from the primary payer is greater than the cost of the transplant DRG and the organ acquisition costs, there is no Medicare liability and the organ cannot be counted as a Medicare usable organ. If the payment from the primary payer is less than the transplant DRG and the organ acquisition costs, there is a Medicare secondary payer liability and the organ is counted as a Medicare usable organ. In this circumstance, the payment from the primary payer is pro-rated between the transplant DRG payment and the organ acquisition payment and the portion of the payment applicable to organ acquisition will be used on the cost report to reduce the Medicare organ acquisition costs.

k. Proposed Organ Acquisition Charges for Kidney Paired Exchanges

In a directed living kidney donation, the donor names a specific recipient who will receive the donor’s kidney. Because the donor and recipient are known prior to the organ excision and transplantation, the organ acquisition costs can be appropriately and accurately matched to the recipient’s account. In a non-directed donation, the donor does not name a specific recipient for the kidney and instead, the donor is matched with a recipient in need.
Kidney paired exchanges are similar to directed living donations; however, when the living donor and recipient do not match, they can consent to participate in a kidney paired exchange program. Kidney paired exchanges can occur when two or more living donor/recipient pairs match each other and the donated kidneys from two or more donors are exchanged so each recipient receives a compatible kidney for transplantation.

In a kidney paired exchange, the living donor and matched recipient may have their procedures performed at different THs. When a recipient and donor elect to participate in a kidney paired exchange, the costs of the initial living donor evaluations are incurred by the originally intended recipient’s TH, regardless of whether the living donor actually donates to their originally intended recipient, a kidney paired exchange recipient, or does not donate at all. The Medicare organ acquisition payment policy for kidney paired donations is currently set forth at PRM section 3106. In this proposed rule, we are proposing to codify Medicare’s organ acquisition payment policy with respect to KPD transactions to ensure that the kidney acquisition costs in a kidney paired exchange are documented so that the kidney acquisition costs are appropriately and accurately assigned to the transplant recipient’s account, and appropriate organ acquisition payment outcomes are achieved, consistent with a directed donation.

The costs of all hospital and physician services for pre-transplant living donor and recipient evaluations become acquisition costs and are included in the MCR of the recipient’s TH, regardless of whether the recipient is a Medicare beneficiary. Additionally, all total usable kidneys and all Medicare usable kidneys are recorded by the transplant hospital on its MCR so that Medicare’s share of kidney acquisition costs can be computed; this is true regardless of whether the transplant results from a KPD or from a directed donation. In a kidney paired exchange, once the donor and recipient are matched, any additional tests requested by the recipient’s TH, and performed by the donor’s TH, are billed to the recipient’s TH as charges reduced to cost (using the donor’s TH’s cost to charge ratio) and included as acquisition costs on the recipient TH’s MCR, regardless of whether the recipient is a Medicare beneficiary. When a donor’s TH procures and sends a kidney to a recipient’s TH, the donor’s TH bills the recipient’s TH the donor TH’s kidney SAC, or alternatively, its standard departmental charges reduced to cost, for the reasonable costs associated with procuring, packaging and transporting the kidney. The donor’s TH records these costs on its MCR as kidney acquisition costs and offsets any payments received from the recipient’s TH against its kidney acquisition costs. The recipient’s TH records as part of its kidney acquisition costs, the amounts billed by the donor’s TH for the reasonable costs associated with procuring, packaging, and transporting the organ, as well as any additional testing performed and billed by the donor’s TH.

In the scenario where a donor’s TH does not procure a kidney, and instead the donor travels to the recipient’s TH and the recipient’s TH procures the organ from the donor, the reasonable costs associated with the organ procurement are included on the MCR of the recipient’s TH. As discussed in section X.B.2.b.(3), of this proposed rule, transportation and travel expenses of the living donor are not allowable Medicare costs. Under 42 U.S.C. 273(b)(3), the cost of transportation of donated organs to the TH are organ acquisition costs. Programs outside of Medicare, such as that of the National Living Donor Assistance Center, may pay for transportation costs for living donors.

**Example.** The following is an example of the accounting of organ acquisition costs in a kidney paired exchange for Medicare cost reporting purposes.

**(Step 1)**: In this example, there are 4 THs: TH A, TH B, TH C, and TH D. Each TH has a potential transplant recipient in need of a kidney and each recipient has a willing, but poorly matched, donor; thus, all donors and recipients enter into a kidney paired exchange. Each recipient and donor pair has been evaluated at their respective TH.

- **TH A.** Recipient A is a patient of TH A. TH A evaluates three potential living donors for Recipient A before a donor, Donor A, is identified. The costs of these evaluations are reported as kidney acquisition costs on TH A’s cost report. Recipient A and Donor A do not match each other but both agree to participate in a KPD exchange.
- **TH B.** Recipient B is a patient of TH B. TH B evaluates two potential living donors for Recipient B before a donor, Donor B, is identified. The costs of these evaluations are reported as kidney acquisition costs on TH B’s cost report. Recipient B and Donor B do not match each other but both agree to participate in a KPD exchange.
- **TH C.** Recipient C is a patient of TH C. TH C evaluates three potential living donors for Recipient C before a donor, Donor C, is identified. The costs of these evaluations are reported as kidney acquisition costs on TH C’s cost report. Recipient C and Donor C do not match each other but both agree to participate in a KPD exchange.
- **TH D.** Recipient D is a patient of TH D. TH D evaluates three potential living donors for Recipient D before a donor, Donor D, is identified. The costs of these evaluations are reported as kidney acquisition costs on TH D’s cost report. Recipient D and Donor D do not match each other but both agree to participate in a KPD exchange.

**(Step 2). the KPD Match.** Through the KPD exchange it is determined that Recipient A matches Donor C; Recipient B matches Donor D; Recipient C matches Donor A; and Recipient D matches Donor B.

**(Step 3). After the KPD Match.**

- Recipient C’s TH requests Donor A’s TH perform an additional test that was not included in Donor A’s initial evaluation. Donor A’s TH performs the additional test and bills Recipient C’s TH, charges reduced to cost, for the additional tests of Donor A. The amounts billed by TH A to TH C are included in TH C’s MCR as organ acquisition costs for Recipient C.
- Donor B elects to travel to TH D for the procurement and any additional testing. (Note: The cost of travel for a living donor is not an allowable organ acquisition cost.)
- Donor A, Donor C, and Donor D remain at their original intended recipients’ THs (TH A, TH C and TH D, respectively) where they were evaluated and where their organ procurement will occur.

**(Step 4). Procuring, Packaging and Transporting the Kidneys.**

- TH A procures Donor A’s kidney and packages and transports it to TH C for Recipient C. TH A bills TH C, charges reduced to cost, for the reasonable costs associated with procuring, packaging and transporting the kidney as well as any additional testing requested by TH C that was not included in the initial evaluation of Donor A. Donor A’s TH records these costs on its MCR as kidney acquisition costs and offsets any payments received from TH C against its kidney acquisition costs.
- TH B does not procure a kidney. Donor B elects to travel to TH D for the procurement. TH D procures Donor B’s kidney and records these costs on its cost report as kidney acquisition costs. TH B receives a kidney from TH D for transplant into recipient B. TH B records the amounts it pays to TH D on TH B’s MCR as kidney acquisition costs.
- TH C procures Donor C’s kidney and packages and transports it to TH A for Recipient A. TH C bills TH A, charges reduced to cost, for the reasonable costs associated with procuring, packaging and transporting the kidney as well as any additional testing requested by TH A that was not included in the initial evaluation of Donor C. Donor C’s TH records these costs on its MCR as kidney acquisition costs and records any payments received from TH A on TH C’s MCR to offset its kidney acquisitions costs.

- TH D procures Donor D’s kidney and packages and transports it to TH B for recipient B. TH D bills TH B, charges reduced to cost, for the reasonable costs associated with procuring, packaging and transporting the kidney, as well as any additional testing requested by TH B that was not included in the initial evaluation of Donor D. Donor D’s TH records these costs on its MCR as kidney acquisition costs and records any payments received from TH B on TH D’s MCR to offset its kidney acquisitions costs. TH B records the amounts it pays to TH D for Donor D’s kidney on TH B’s MCR as kidney acquisition costs.

(Step 5), Counting Medicare Usable Organs. Because of the proposed policy in section X.B.2.h. of the preamble of this proposed rule and proposed new § 413.408 for Medicare usable organ counting, all organs that are transplanted into Medicare beneficiaries are counted as Medicare usable kidneys.

The following tables summarize the KPD exchange described previously.

### TABLE X.B.-02. SUMMARY OF KIDNEY PAIRED DONATION EXCHANGE EXAMPLE

<table>
<thead>
<tr>
<th></th>
<th>TH A</th>
<th>TH B</th>
<th>TH C</th>
<th>TH D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recipient</td>
<td>Recipient A</td>
<td>Recipient B</td>
<td>Recipient C</td>
<td>Recipient D</td>
</tr>
<tr>
<td>Number of evaluations</td>
<td>Evaluates 3 potential donors before Donor A is identified.</td>
<td>Evaluates 2 potential donors before Donor B is identified.</td>
<td>Evaluates 3 potential donors before Donor C is identified.</td>
<td>Evaluates 3 potential donors before Donor D is identified.</td>
</tr>
<tr>
<td>Donor</td>
<td>Donor A</td>
<td>Donor B</td>
<td>Donor C</td>
<td>Donor D</td>
</tr>
<tr>
<td>Donor match</td>
<td>Recipient A and Donor A do not match each other but agree to a KPD exchange.</td>
<td>Recipient B and Donor B do not match each other but agree to a KPD exchange.</td>
<td>Recipient C and Donor C do not match each other but agree to a KPD exchange.</td>
<td>Recipient D and Donor D do not match each other but agree to a KPD exchange.</td>
</tr>
<tr>
<td>KPD match</td>
<td>Recipient A matches with Donor C.</td>
<td>Recipient B matches with Donor D.</td>
<td>Recipient C matches with Donor A.</td>
<td>Recipient D matches with Donor B.</td>
</tr>
<tr>
<td>After the match</td>
<td>TH A performs additional tests and procures kidney from Donor A for TH C.</td>
<td>TH B does not procure kidney from Donor B for TH D. Donor B travels to TH D.</td>
<td>TH C procures kidney from Donor C for TH A.</td>
<td>TH D procures kidney from Donor D for TH B. Donor B travels to TH D for the kidney procurement.</td>
</tr>
</tbody>
</table>
In this proposed rule, we are proposing to codify into the regulations the Medicare organ acquisition payment policy for kidney paired exchanges, as set forth in PRM section 3106. Consistent with this proposal, we are proposing to add § 413.416(a) to new subpart L to specify that when a recipient and donor elect to participate...

### TABLE X.B.-03. SUMMARY OF ACCOUNTING FOR KIDNEY PAIR DONATION EXAMPLE

<table>
<thead>
<tr>
<th>Accounting</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cost of evaluations</strong></td>
<td>$12,000 incurred by TH A</td>
<td>$9,000 incurred by TH B</td>
<td>$15,000 incurred by TH C</td>
</tr>
<tr>
<td><strong>Counting Medicare usable kidneys</strong></td>
<td>2 Medicare usable kidneys: 1 kidney procured/sent and 1 kidney received/transplanted.</td>
<td>1 Medicare usable kidney: 1 kidney received/transplanted.</td>
<td>2 Medicare usable kidneys: 1 organ procured/sent and 1 kidney received/transplanted.</td>
</tr>
<tr>
<td><strong>Donor costs associated with procuring, packaging and transporting the kidney to the recipient TH s</strong></td>
<td>TH A bills TH C $18,000 for costs incurred to procure Donor A’s kidney.</td>
<td>No bills sent to TH D.</td>
<td>TH C bills TH A $10,000 for costs incurred to procure Donor C’s kidney.</td>
</tr>
<tr>
<td><strong>Recipient costs associated with procuring, packaging and transporting the kidney bill by Donor THs</strong></td>
<td>TH A receives a bill from TH C for $10,000 for costs incurred to procure Donor C’s kidney.</td>
<td>TH B receives a bill from TH D for $14,000 for costs incurred to procure Donor D’s kidney.</td>
<td>TH C receives a bill from TH A for $18,000 for costs incurred to procure Donor A’s kidney.</td>
</tr>
<tr>
<td><strong>Kidney acquisition costs recorded on MCR</strong></td>
<td>$12,000 evaluation costs of TH A</td>
<td>$9,000 evaluation costs of TH B</td>
<td>$15,000 evaluation costs of TH C</td>
</tr>
<tr>
<td>Subtotal</td>
<td>$40,000</td>
<td>$23,000</td>
<td>$43,000</td>
</tr>
<tr>
<td><strong>Offset on MCR amounts received from recipient TH. Amounts in ( ) denote a negative number.</strong></td>
<td>($18,000) received from TH C</td>
<td>No payment received from TH D</td>
<td>($10,000) received from TH A</td>
</tr>
<tr>
<td><strong>Net cost recorded on MCR</strong></td>
<td>$22,000</td>
<td>$23,000</td>
<td>$33,000</td>
</tr>
</tbody>
</table>
in a kidney paired exchange, the costs of the initial living donor evaluations are incurred by the originally intended recipient’s TH, regardless of whether the living donor actually donates to their originally intended recipient, a kidney paired exchange recipient, or does not donate at all. We are also proposing to add §413.416(b) to new subpart L to specify that in a kidney paired exchange, regardless of whether an actual donation occurs, once the donor and recipient are matched, any additional tests requested by the recipient’s TH and performed by the donor’s TH, are billed to the recipient’s TH as charges reduced to cost (using the donor’s TH’s cost to charge ratio) and included as acquisition costs on the recipient TH’s MCR. We are also proposing to add §413.416(c) to new subpart L to specify that in a kidney paired exchange, when a donor’s TH procures and sends a kidney to a recipient’s TH, all costs must be reasonable and necessary and (1) the donor’s TH bills the recipient’s TH the donor TH’s charges reduced to cost or the TH’s applicable SAC for the reasonable costs associated with procuring, packaging and transporting the kidney; (2) the donor’s TH records these costs associated with procuring, packaging and transporting the kidney on its MCR as kidney acquisition costs and offsets any payments received from the recipient’s TH against these kidney acquisition costs; and (3) the recipient’s TH records as part of its kidney acquisition costs, the amounts billed by the donor’s TH for the reasonable costs associated with procuring, packaging, and transporting the organ as well as any additional testing performed and billed by the donor’s TH. We are also proposing to add §413.416(d) to new subpart L to specify that, in a kidney paired exchange (1) when a donor’s TH does not procure a kidney, but the donor travels to the recipient’s TH for the organ procurement, the reasonable costs associated with the organ procurement are included on the MCR of the recipient’s TH, and (2) travel expenses of the living donor are not allowable Medicare costs. In section X.B.2.c.(2), of this proposed rule, we are proposing to add §413.404(b)(2) to specify that when a transplant hospital/ HOPO provides an organ to another transplant hospital or OPO, it must bill the receiving transplant hospital or OPO its SAC or the hospital’s standard departmental charges that are reduced to cost.

I. Proposals Requiring Donor Community Hospitals To Charge OPOs Reasonable Costs, Charges Reduced to Cost

Medicare-certified hospitals that are not THs but collaborate with OPOs to procure organs from cadaveric donors for transplantation are hereinafter referred to as “donor community hospitals”. To participate in the Medicare Program, donor community hospitals and THs have organ procurement responsibilities and must have an agreement with a designated OPO to timely notify the OPO of individuals whose death is imminent or who have died in the hospital (42 CFR 482.45(a)(1)). The OPO then implements its donation protocol and, when appropriate (after declaration of death and consent to donate), will arrange for the procurement of all medically suitable cadaveric donor organs for transplant, at the donor community hospital or TH. In this regard, donor community hospitals and THs may incur costs for services provided to cadaveric organ donors following the consent to donate through the procurement of the organs (for example, use of the hospitals operating room, staff, and ventilators to maintain the viability of the cadaveric donor organs).

Currently, when a donor community hospital incurs costs for services provided to the cadaveric donor, as authorized by the OPO following the declaration of death and consent to donate, it bills the OPO its customary charges (not reduced to cost) or a negotiated rate (PRM–1 section 3107). Donor community hospital billing procedures are described in IL 74–23, published July 1, 1974, which provides, “where the excising hospital is not a TH, it will bill its customary charges for those services used in excising the cadaver kidney.” Thereafter, the OPO includes the charges from the donor community hospital on its cost report as part of the OPO’s organ acquisition costs. At the end of its accounting period, the TH/HOPO uses these amounts to calculate its renal and non-renal SAC amounts for the following year, and the IOPO uses these amounts to calculate its non-renal SAC amounts for the following year. Medicare contractor’s also use these amounts to calculate the IOPO’s kidney SAC for the following year.

When the IOPO furnishes an organ to a TH (or other OPO), the IOPO bills the TH (or other OPO) the IOPO’s SAC for the specific organ type. Currently, when a TH/HOPO provides an organ to another TH or OPO, it must bill its SAC or its standard departmental charges reduced to cost. The OPO’s SAC is a charge which reflects an average of the total actual costs the OPO incurs to furnish an organ and reflects amounts the OPO is charged by the donor community hospital for services the donor community hospital provides to cadaveric donors. THs then include these SACs they have paid to OPOs to procure organs as allowable acquisition costs in their bills to Medicare, which Medicare pays. Therefore, because the OPO’s incurred costs are passed on to and paid by the TH, and because the TH then includes these amounts as organ acquisition costs on its cost report, this chain of incurred costs results in Medicare paying these donor hospital charges (that are not reduced to cost) when it reconciles the organ acquisition costs on the TH cost report.

Stakeholders have made CMS aware that some donor community hospitals are charging OPOs amounts that are in excess of reasonable costs for services provided to cadaveric organ donors, resulting in Medicare paying more than reasonable costs for the acquisition of cadaveric donor organs for transplant. In one instance, an OPO identified a donor community hospital in its designated service area that billed amounts in excess of reasonable costs. CMS reviewed the donor community hospital’s bills to the OPO and the donor community hospital’s MCR information to evaluate the costs associated with those charges. CMS computed, using the hospitals cost-to-charge ratios, that the charges billed by the donor community hospital in the amount of $194,000, equated to a cost of $11,000. Thus, the donor community hospital’s actual costs were approximately 6 percent of their billed charges.

Organ acquisition costs are reimbursed under Medicare’s principles of reasonable cost established under section 1861(v) of the Act. Donor community hospitals (and THs) are Medicare-certified hospitals and must follow Medicare’s reasonable cost principles under section 1861(v) of the Act. Because the services donor community hospitals provide to cadaveric donors, and thus charge to OPOs, are included as organ acquisition costs on OPOs’ cost reports, these charges should also be subject to Medicare’s principles of reasonable cost established under section 1861(v) of the Act, and 42 CFR 413.5 and 413.9.

In a 1978 final rule with comment, CMS similarly noted that THs have no basis for determining the reasonableness
of the charges made by the OPO.\textsuperscript{1515} CMS observed that services furnished by OPOs, if they are not part of the transplant hospital, are billed to transplant hospitals, which pay the charges shown on the bill. The charges then become allowable costs of the hospitals.\textsuperscript{1516} When donor community hospitals charge OPOs amounts not reduced to costs, and the OPOs pay the charges shown on the bill, those charges become incorporated as organ acquisition costs to the TH and are subsequently shared by Medicare; thus, Medicare’s reasonable cost principles applicable to organ acquisition costs are not observed. We note that organs recovered from donor community hospitals comprised 62 percent of all transplanted organs in 2017 and 2018.\textsuperscript{1517} We recognize that because THs bill the OPO’s charges to Medicare, Medicare is paying more than reasonable costs for these services that become organ acquisition costs.

Because these charges become allowable organ acquisition costs of the TH, we believe that donor community hospitals should be required to reduce their charges to cost for services provided to cadaveric donors and billed to OPOs, in accordance with reasonable cost principles given in section 1861(v) of the Act and in our regulations at 42 CFR 413.5 and 413.9. Doing so will result in conformance to Medicare reasonable cost principles, and result in reduced costs to the OPOs, subsequently reducing cadaveric donor SACs billed to THs or OPOs, which may benefit other payors, as well as Medicare. Donor community hospitals are reimbursed either a DRG payment by Medicare (if the patient is a Medicare beneficiary), or a payment from other payors, for services provided to a potential organ donor prior to declaration of death and consent to donate. For services provided after declaration of death and consent to donate payment, if our proposal is implemented, donor hospitals would be reimbursed by OPOs for their reasonable costs in accordance with Medicare’s principles of reimbursement. Therefore, a donor community hospital would see a reduction in reimbursement from OPOs, because the donor hospital was previously permitted to bill the OPO its customary charges or negotiated rates. However, donor community hospitals would still have their reasonable costs reimbursed.

We believe that an equitable and accurate methodology to reduce a donor community hospital’s charges to cost would be to use the most recently available hospital specific CCR. Using the hospital’s specific CCR would be unique to each donor community hospital and would more accurately compensate them for services provided to cadaveric organ donors, as opposed to using an alternative like the statewide CCR. Because contractors recalculate each hospital’s specific CCR on an ongoing basis, whenever more recent cost report data is available, the hospital’s specific CCR is arguably more accurate and more closely aligned with creating a uniform charge to cost structure.

One methodology we considered to reduce a donor community hospital’s charges to cost was to require them to use their statewide average operating CCR and apply this statewide average CCR to its charges. The statewide average operating CCR is updated annually in the FY IPPS/LTCH rule and is a transparent source of data. We note that the statewide average operating CCR published in the FY 2021 IPPS/LTCH final rule was 0.272 for urban hospitals and 0.336 for rural hospitals. Using a statewide average CCR would even out any instances in which a hospital’s operating costs fall above or below established parameters. However, because it is an average, it would not accurately represent the variability in actual hospital specific CCRs. Therefore, using a statewide CCR may not adequately serve the purpose of reducing charges to cost.

Stakeholders have suggested that some donor community hospitals are improperly billing OPOs for services provided to cadaveric donors prior to the declaration of death and consent to donate. This would be inappropriate because hospital services provided prior to declaration of death and consent to donate are billable to the donor’s insurance in the same manner hospital services are billable to an individual receiving services, regardless of whether the payor is Medicare. We reiterate that when a donor community hospital or TH incurs costs for providing services to a cadaveric donor, as authorized by the OPO, only those costs incurred after the declaration of the donor’s death and consent to donate are permitted to be billed to the OPO. The OPO must accept bills from donor community hospitals and THs for costs only incurred after the declaration of death and consent to donate. Contractors will review OPO cost reports to ensure that donor community hospitals and THs charge OPOs for cadaveric donor costs incurred after declaration of death and consent to donate.

In this proposed rule we are proposing to add § 413.418(a) in new subpart L, to specify that a donor community hospital (a Medicare-certified non-transplant hospital) incurs organ acquisition costs for donor organ procurement services, authorized by the OPO following declaration of death and consent to donate.

We are proposing to add § 413.418(b) in new subpart L, to specify that for cost reporting periods beginning on or after October 1, 2021, when a donor community hospital incurs costs for services furnished to a cadaveric donor, as authorized by the OPO, the donor community hospital must bill the OPO its customary charges that are reduced to cost by applying its most recently available hospital specific cost-to-charge ratio for the period in which the service was rendered.


(1) Conforming Changes to Terminology in 42 CFR Parts 412 and 413

In section X.B.2.a.(1). of the preamble of this proposed rule, we noted terminology differences in the use of “transplantation center”, where the regulations in 42 CFR part 412, subparts A, E, G, and H and in Part 413, subparts A, C, and H use the term to mean an organ-specific transplantation program that is within a TH. We are proposing to conform the language in the regulation text to the terminology used in the CoPs at §482.70 by replacing the term “transplantation center” and its various permutations with the term “transplant program” and its various permutations. We are proposing to make this conforming change in the text of the following regulations: §§ 412.2(e)(4), 412.71(b)(3), 412.90(d), 412.100 (in the title and in the text at §§412.100(a)(1)), 412.113(d), 412.116(c), and 413.40(a)(3). We are also proposing to update the terminology to replace “organ procurement agency” and its various permutations with “organ procurement organization” and its various permutations. Further, we are proposing to replace the acronym “OPAs” with “OPOs”. We are proposing to make these terminology changes to the regulation text at §§412.100(b) and 413.1(a)(2)(v) to conform to the terminology used in the CoPs found in 42 CFR part 482. Finally, we are proposing to change “renal” to “kidney” in §§412.71(b)(3), 412.90(d), in the title and paragraph (a) of §412.100, and in §412.116(c), to

\textsuperscript{1515} 43 FR 58370 (December 14, 1978).
\textsuperscript{1516} Id.
\textsuperscript{1517} Scientific Registry of Transplant Recipients. Request for Information. Requested on 02/08/2021.
conform to the terminology used in the CoPs at § 482.104.

(2) Revisions, Technical Corrections, and Conforming Changes to § 412.100

We are proposing to revise the text currently found in § 412.100(a) and (b) to change “expenses” to “costs” and to remove the word “estimated” from § 412.100(a)(1). We are also proposing to make a technical correction to remove from § 412.100(a)(1) cross-references to CoPs which no longer exist, and replace them with §§ 412.104 and are proposing to add language to clarify that CMS adjusts inpatient prospective payment system (IPPS) rates for inpatient operating costs. We are proposing to revise § 412.100(a)(1) to read CMS adjusts the inpatient prospective payment system (IPPS) rates for inpatient operating costs determined under subparts D and E of this part for hospitals with approved kidney transplant programs (discussed at § 482.104) to remove the net costs associated with kidney acquisition.

Additionally, we are proposing to revise § 412.100(a)(2) to clarify the language, and to specify that Medicare payment for kidney acquisition costs includes only those costs for kidneys transplanted into Medicare beneficiaries. We are proposing to revise § 412.100(a)(2) to specify the following:

• Payment for Medicare kidney acquisition costs, as set forth in subpart L of part 413 of this chapter, is made on a reasonable cost basis apart from the prospective payment rate for inpatient operating costs.

• IPPS payment to the hospital is adjusted in each cost reporting period to reflect an amount necessary to compensate the hospital for reasonable costs of Medicare kidney acquisition.

In section X.B.2.m.(1), of the preamble of this proposed rule, we are proposing to revise the text at § 412.100(a)(2) to clarify the language, and to specify that Medicare payment for kidney acquisition costs includes only those costs for kidneys transplanted into Medicare beneficiaries. In addition, we are proposing to revise § 412.100(a)(2) to clarify the language, and to specify that Medicare payment for kidney acquisition costs includes only those costs for kidneys transplanted into Medicare beneficiaries. We are proposing to revise § 412.100(a)(2) to specify the following:

• Payment for Medicare kidney acquisition costs, as set forth in subpart L of part 413 of this chapter, is made on a reasonable cost basis apart from the prospective payment rate for inpatient operating costs.

• IPPS payment to the hospital is adjusted in each cost reporting period to reflect an amount necessary to compensate the hospital for reasonable costs of Medicare kidney acquisition.

In section X.B.2.m.(1), of the preamble of this proposed rule, we are proposing to revise the text at § 412.100(b) by revising and relocating the list of organ acquisition costs given in that paragraph and adding the list as paragraph (b) in proposed § 413.402 of new subpart L. Further, we are proposing to revise § 412.100(b) to make clear that the kidney acquisition costs must be incurred. Finally, we are proposing to revise § 412.100(b) to add language that the items and services covered as kidney acquisition costs are specified in § 413.402(b).

(3) Proposed Revisions and Conforming Changes to 42 CFR 412.113(d)

In addition to the conforming change discussed in section X.B.2.m.(1), of the preamble of this proposed rule, we are proposing to revise the regulation text at § 412.113(d) to reference the organ acquisition policies given in new subpart L of part 413, rather than to maintain the existing cross-reference to the definition of organ given in § 486.302.

(4) Technical Corrections and Conforming Changes to § 413.1

In addition to the conforming change discussed in section X.B.2.m.(1), of the preamble of this proposed rule, we are proposing to revise the text in § 413.1(d)(2)(i) to put it into list form.

We are also proposing to revise the regulation text related to kidney acquisition costs to read organ acquisition costs as specified in part 413 subpart L.

(5) Proposed Revision to 42 CFR 413.40(a)(3)

In addition to the proposed conforming changes discussed in X.B.2.m.(1), of the preamble of this proposed rule, we are proposing to make a technical correction and a revision to paragraph (a)(3) of § 413.40. We are proposing to revise the regulation text that references heart, kidney, and liver acquisition costs to read organ acquisition costs as specified in part 413 subpart L.

(6) Proposed Regulatory Changes to Section 413.200

We are proposing to remove the regulation found at 42 CFR 413.200 entitled Payment of Independent organ procurement organizations and histocompatibility laboratories. We are proposing to add § 413.400 to contain revised text from § 413.200(b), and to add § 413.420 to contain the remaining regulation text from § 413.200 (a) and (c) through (g), along with a revised title, so that the content of § 413.200, with revisions, is located with other regulations specific to organ acquisition in part 413, new subpart L. We are proposing to make a technical correction or revisions to two of the three definitions found in § 413.200(b), as described in section X.B.2.a.(2), of the preamble of this proposed rule. We are proposing to add these definitions to proposed § 413.400, as described in section X.B.2.a.(2), of the preamble of this proposed rule.

We are proposing to relocate and revise the regulation title and regulation text currently existing in § 413.200 in paragraphs (a), (c) through (g), by adding § 413.420, entitled “Payment to independent organ procurement organizations to cover histocompatibility laboratories for kidney acquisition costs” and by adding paragraphs (a), (c) through (g) with the text from those same paragraphs in § 413.200. We are proposing to make conforming changes to the regulation text in § 413.420(a) and (c) through (g) to distinguish independent OPOs (IOPOs) from all OPOs where appropriate, in accordance with the proposed definition of IOPO in § 413.400. We are also proposing to add paragraph (b) to § 413.420 with a subtitle of “Definitions”, to provide a cross-reference to the definitions in § 413.400 of new subpart L. Therefore, the proposed new § 413.420 would maintain the same paragraph structure as the existing § 413.200. Finally, we are proposing minor revisions to clarify the regulation text, including changing language from passive to active tense, changing verbs from future tense to present tense, and editing to improve readability.

3. Solicitation of Comments Regarding Surgeon Fees for Cadaveric Donor Excisions

Since 1987, we have limited the amount an OPO may reimburse a physician for cadaveric kidney donor retrieval services. Chapters 27 and 31 of the PRM limit the physician payment for cadaveric kidney retrieval to $1,250 per donor (one or two kidneys). The history behind the limitation on physician payment may be based on a July 1974 $400 physician services limitation on excising kidneys in community hospitals that do not participate in Medicare, which was noted in a Part A Intermediary Letter (IL No. 74–23, July 1974); it may also be based in part on the 1983 median cost paid by OPOs for surgical excision of cadaveric kidneys, which was approximately $800. Although the payments made to physicians for organ retrieval services associated with other types of organ transplants have increased, cadaveric kidney retrieval rates have remained capped at $1,250. We have received several requests to change the amount we pay for cadaveric kidney retrievals. At the CY 2009 Revisions to Payment Policies Under the Physician Fee Schedule and Other Revisions to Part B for CY 2009 (hereafter, Physician’s Fee) proposed rule (73 FR 38580 and 38581), we solicited public comments and data that are reflective of organ retrieval service costs for all types of organs. At that time, we did not have data upon which...
to base a change in payment. We stated that we may use this information to determine the extent to which a recalculation of the payment for cadaveric organ retrieval services performed by a physician is warranted and to inform any future rulemaking on this subject. We received four timely public comments in response to our request for information and data for use in updating the organ retrieval physician payment amount included in organ acquisition costs, which were discussed in detail in the CY 2009 Physicians Fee Schedule final rule (73 FR 69864). However, we did not receive any data that would be useful in evaluating the appropriateness of the $1,250 per donor surgeon fee limit for cadaveric kidney retrievals.

For this proposed rule, we used 2017 cost report data from 48 OPOs to calculate a surgeon fee cost per local kidney for each provider, by dividing the kidney surgeon fee costs reported on Worksheet A–2, line 13, column 3 of the MCR by the number of local kidneys reported on Worksheet S–1, Part 1, Line 1, column 1 of the MCR. Excluding three providers with extremely low surgeon fees per local kidney (ranging from $0 to $231), the average surgeon fee cost per local kidney was $745. These provider-reported data suggest that the $1,250 limit on surgeon fees for cadaveric donor kidney retrievals is sufficient and allows for some higher cost excisions. However, we have received comments suggesting that this limit needs to be reconsidered.

While we are not proposing to change the physician payment limit for cadaveric kidney retrieval in this proposed rule, we are soliciting information on the physician effort and resources required to procure a cadaveric kidney for transplantation. Specifically, we are soliciting data or other information on surgical time, dry runs (number and percentage of retrievals in which an organ is not recovered), travel and wait times, as well as the incremental time required for extended criteria donors and donors after cardiac death. Additionally, we are soliciting resource information to determine the difference in procuring one kidney or a pair of kidneys from a single donor. The comments we receive may inform development of future proposals related to surgeon fee payment for organ retrieval from cadaveric donors. Any possible future rulemaking would provide for notice and public comment.

C. Medicare Shared Savings Program—Proposed Policy Changes (§ 425.600)

1. Background

The Medicare Shared Savings Program (Shared Savings Program) was established under section 1899 of the Act to facilitate coordination and cooperation among providers and suppliers to improve the quality of care for Medicare fee-for-service (FFS) beneficiaries and reduce the rate of growth in expenditures under Medicare Parts A and B. Eligible groups of providers and suppliers, including physicians, hospitals, and other health care providers, may participate in the Shared Savings Program by forming or participating in an accountable care organization (ACO). The regulations implementing the Shared Savings Program are codified at 42 CFR part 425. The final rule establishing the Shared Savings Program appeared in the November 2, 2011 Federal Register (Medicare Program: Medicare Shared Savings Program Accountable Care Organizations; final rule (76 FR 67802)). A complete list of all of the statutes and regulations pertaining to the Shared Savings Program is located at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/sharedsavingsprogramprogram-statutes-and-regulations.

A final rule redesigning the Shared Savings Program appeared in the December 31, 2018 Federal Register titled “Medicare Program: Medicare Shared Savings Program: Accountable Care Organizations—Pathways to Success and Uncontrollable Circumstances Policies for Performance Year 2017” (83 FR 67816) (hereinafter referred to as the “December 2018 final rule”). In the December 2018 final rule, we finalized a number of policies for the Shared Savings Program, including a redesign of the participation options available under the program to encourage ACOs to transition to two-sided models (in which they may share in savings and are accountable for repaying shared losses); new tools to support coordination of care across settings and strengthen beneficiary engagement; and revisions to ensure rigorous benchmarking.

In the December 2018 final rule, we established the BASIC track in a new provision at § 425.605. The BASIC track includes an option for eligible ACOs to begin participation under a one-sided model and incrementally phase-in risk (using a loss recoupment limit calculated based on ACO participant revenue and a percentage of the ACO’s updated benchmark) and potential reward over the course of a single agreement period, an approach referred to as the glide path (83 FR 67841). The glide path includes five levels: A one-sided model available only for the first 2 consecutive performance years (PYs) of an ACO’s initial 5-year agreement period, each year of which is identified as a separate level (Levels A and B); and three levels of progressively higher risk and potential reward in PYs 3 through 5 of the agreement period (Levels C, D, and E). Eligible ACOs that have previously participated in Track 1 of the Shared Savings Program may enter the glide path at Level B. ACOs are automatically advanced along the progression of risk/reward levels at the start of each performance year, over the course of a 5-year agreement period, unless the ACO elects to advance more quickly, until ACOs reach the BASIC track’s maximum level of risk/reward (Level E) (83 FR 67844). Level E qualifies as an Advanced Alternative Payment Model and clinicians in ACOs participating in Level E of the BASIC track may qualify for APM incentive payments under the Quality Payment Program if they meet the criteria to become Qualifying APM Participants (QPs). For ACOs that entered the BASIC track’s glide path for an agreement period beginning on July 1, 2019, the progression through the levels of risk and potential reward spans 6 performance years, including the ACO’s first performance year from July 1, 2019, through December 31, 2019; these ACOs were not automatically advanced to the next risk/reward level at the start of PY 2020 (for more information, see §§ 425.200(b)(4)(ii) and 425.605(a)(4)(i)(B)(2)(i)).

As of January 1, 2021, there are 477 Shared Savings Program ACOs serving approximately 10.7 million Medicare FFS beneficiaries across the country: 41 percent of ACOs (195 of 477) are currently participating under two-sided shared savings and shared losses models; and 194 ACOs are participating under the BASIC track’s glide path, including 163 ACOs in one-sided Levels A and B and 31 ACOs in two-sided Levels C and D. For 2021, 37 ACOs elected to advance more quickly along the glide path to Level E for a total of 69 ACOs currently participating under Level E of the BASIC track.

The COVID–19 pandemic and the resulting ongoing public health emergency (PHE), as defined in 42 CFR 400.200, have continued to create a lack of predictability for many ACOs regarding the impact of utilization changes on beneficiary assignment and performance year expenditures. The PHE has disrupted population health activities as clinicians, care coordinators
and financial and other resources are diverted to address immediate needs, including acute care and vaccine delivery. The lack of predictability and disrupted population health activities created concern for some ACOs regarding the impact on their Shared Savings Program performance and the potential for shared losses. In the interim final rule with comment period (IFC) that appeared in the May 8, 2020 Federal Register (85 FR 27575 and 27576) (hereinafter referred to as the “May 2020 COVID–19 IFC”), we modified the Shared Savings Program policy of automatic advancement along the glide path to allow BASIC track ACOs participating in the glide path the option to forgo the first automatic advancement along the glide path’s increasing levels of risk and potential reward. We subsequently finalized the modified policy without change in the CY 2021 Physician Fee Schedule (PFS) final rule (85 FR 84767 through 84769).

Under the terms of the current regulations, BASIC track ACOs that elected this option for performance year 2021 will be automatically advanced for performance year 2022 to the level at which they would have otherwise participated under automatic advancement if they had not elected the option. Seventy-four percent of eligible BASIC track ACOs (148 of 201) elected the 1-year “freeze” for PY 2021. Another 18 BASIC track ACOs elected to take on risk, by either automatically transitioning to Level C or by advancing more quickly along the glide path.

2. Proposal Regarding Basic Track Risk “Freeze” Option

Due to the continued PHE for COVID–19, ACOs and other stakeholders have requested that the exception that allowed ACOs in the BASIC track to opt for a risk “freeze” for PY 2021 be continued for PY 2022. While the PHE for COVID–19 remains ongoing, new considerations and challenges that impact ACO operations and expenditures continue to emerge: (1) the effects of cancelling or delaying services during the PHE, including the expectation that beneficiaries who may have gone without routine and acute care during the PHE will need increased care; (2) the emergence of new variants and mutations of the existing variants of the coronavirus that causes COVID–19; and (3) the resources involved in vaccinating the Medicare population. Given the inability of ACOs to anticipate the extent to which these issues may impact expenditures during PY 2022 and effectively prepare for these issues, we believe providing additional flexibilities to address the uncertainty produced by the ongoing PHE for COVID–19 is essential to encourage ACOs to continue participating in the Shared Savings Program during the ongoing PHE for COVID–19.

As noted previously, in the May 2020 COVID–19 IFC, we adopted a new provision at §425.600(a)(4)(ii)(B)(2)(iii) to provide the opportunity for ACOs participating in the BASIC track’s glide path to maintain their level of participation for PY 2021 and not automatically progress to a higher level along the glide path. For PY 2022, the ACOs that voluntarily elected to “freeze” their participation level in accordance with §425.600(a)(4)(ii)(B)(2)(iii) are currently required to progress to the level of participation they would have been automatically advanced to, absent the election to maintain their participation level for PY 2021. For example, if an ACO in Level B of the BASIC track in PY 2020 elected to maintain its participation in Level B for PY 2021, the ACO will be automatically transitioned to Level D for PY 2022. Level D of the BASIC track is a two-sided model with a 50-percent sharing rate and 30-percent loss sharing rate, not to exceed 4 percent of ACO participant revenue capped at 2 percent of the ACO’s updated benchmark.

Stakeholders have continued to express concern that as a result of the unpredictable circumstances of the PHE and the sustained impacts of the COVID–19 pandemic during PY 2021, some ACOs may terminate their participation in the program if they are required to automatically transition to downside risk or a higher level of downside risk for PY 2022. Specifically, stakeholders have requested that we allow a second “freeze” period for ACOs participating in the BASIC track’s glide path to opt out of automatic advancement from their current level of participation for PY 2022. As detailed in the May 2020 COVID–19 IFC (85 FR 27576), per § 425.204(f)(3)(iii), an ACO entering an agreement period in Level A or Level B of the BASIC track must demonstrate the adequacy of its repayment mechanism prior to the start of any performance year in which it either elects to participate, or is automatically transitioned to a two-sided model of the BASIC track, including Level C, Level D or Level E. We believe that it would be appropriate to provide the flexibility to ACOs, particularly those that would otherwise automatically transition to Level E of the BASIC track for PY 2022, to delay transitioning to two-sided risk, thus delaying the requirement to establish a repayment mechanism prior to the start of PY 2022. This flexibility would allow these ACOs the option to put financial resources that might otherwise be used to establish a repayment mechanism towards continuing to care for their beneficiaries during the ongoing pandemic. Currently, the Shared Savings Program has 163 ACOs participating under Level A or Level B of the BASIC track that are scheduled to automatically advance to Level C or Level D on January 1, 2022.

We are also concerned that the PHE for COVID–19 has made expenditures and utilization more difficult to predict and that ACOs may be more risk-averse as patient care patterns have been altered by the pandemic. ACOs cannot know the full impact that the PHE for COVID–19 and the related changes in health care utilization will have on their total expenditures or their assigned beneficiary population. In addition, the duration of the PHE for COVID–19 remains uncertain, and it is unclear whether the PHE will extend into 2022, such that shared losses owed by ACOs participating under two-sided payment models would be mitigated under the Shared Savings Program’s extreme and uncontrollable circumstances policy. Therefore, we propose that ACOs participating in the BASIC track’s glide path may elect to maintain their current level of risk under the BASIC track for PY 2022. Specifically, we propose that before the automatic advancement for PY 2022, an applicable ACO may elect to remain in the same level of the BASIC track’s glide path in which it participated during PY 2021. For PY 2023, an ACO that elects this advancement deferral option would be automatically advanced to the level of the BASIC track’s glide path in which it would have participated during PY 2023 if it had advanced automatically to the required level for PY 2022 (unless the ACO elects to advance more quickly before the start of PY 2023). For example, if an ACO that participated in the BASIC track Level A for PY 2020, then automatically advanced to Level B in PY 2021, elects to maintain its current level of participation for PY 2022, it would participate under Level B for PY 2022 and then would automatically advance to Level D for PY 2023. The ACO could also elect to advance more quickly by opting to move to Level E instead of Level D for PY 2023, in which case the ACO would participate under Level E for the remainder of its agreement period. In contrast, if an ACO that participated in the BASIC track Level B for PY 2020 elected to maintain its participation at
Level B for PY 2021, but does not elect to maintain its participation under Level B for PY 2022, the ACO would automatically advance to Level D for PY 2023, unless it chooses to advance more quickly.

Under this proposal, an ACO that elects to freeze its participation level for both PY 2021 and PY 2022 would be automatically advanced for PY 2023 to the level of the BASIC track’s glide path in which it would have participated during PY 2023, absent both of its elections to freeze. For example, if an ACO participating in the BASIC track, Level B, in PY 2020 elected to maintain its current level of participation for PY 2021, and then chose again to maintain its current level of participation for PY 2022, it would continue to participate under Level B in both PY 2021 and PY 2022, before automatically advancing to Level E for PY 2023. In this example, the ACO would participate under Level E for the remainder of its agreement period. We have provided the following table to illustrate the potential scenarios for ACOs that elect to maintain their current level of risk for PY 2021 or PY 2022 or both. This chart is intended only to address ACOs that may want to elect to “freeze” for PY 2022 and does not address other participation options, such as the exception that allows certain ACOs to elect to remain in Level B for an additional performance year, and then automatically advance to Level E for the final 2 participation years of their agreement as specified at § 425.600(a)(4)(i)(B)(2)(ii).

<table>
<thead>
<tr>
<th>BASIC TRACK’S GLIDE PATH “FREEZE” SCENARIOS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PY 2020</strong></td>
</tr>
<tr>
<td>Level A</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Level B</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Level C</td>
</tr>
</tbody>
</table>

We propose that the ACO’s voluntary election to maintain its participation level for PY 2022 must be made in the form and manner and by a deadline established by CMS, and an ACO executive who has the authority to legally bind the ACO must certify the election. We recognize that the annual application and change request cycle will begin before the FY 2022 IPPS/LTCH PPS rulemaking is finalized. Accordingly, we will give ACOs the
opportunity during the change request cycle to indicate whether they are interested in maintaining their participation at Level A or Level B under this proposed policy, should it be finalized. ACOs expressing such an interest would not be required to submit a repayment mechanism at that time. In the event this proposed policy is not finalized in the FY 2022 IPPS/LTCH PPS final rule, ACOs that are required under § 425.600(a)(4)(i)(B)(2)(iii) to advance from Level A or Level B to a two-sided risk model for FY 2022 would have a limited opportunity to submit a repayment mechanism, resolve any deficiencies, and have it approved in time for the start of the performance year. ACOs that fail to establish a repayment mechanism that complies with the requirements of § 425.204(f) by the deadline specified by CMS would be terminated as required under § 425.600(a)(4)(i)(B)(3).

We propose to redesignate § 425.600(a)(4)(i)(B)(2)(iv) as § 425.600(a)(4)(i)(B)(2)(v). Additionally, we propose to add a new paragraph (a)(4)(i)(B)(2)(vi) which would allow ACOs currently participating in the BASIC track’s glide path to elect to maintain their current participation level for FY 2022. We intend to continue to monitor the PHE for COVID–19 and assess its impact on the Shared Savings Program. We will address any additional flexibilities that may be warranted as a result of the ongoing PHE through future notice and comment rulemaking. Lastly, in the May 2020 COVID–19 IFC (85 FR 27625), we revised the regulations at § 425.600 to allow BASIC track ACOs to maintain their participation level for FY 2021 by redesignating paragraph (a)(4)(i)(B)(2)(iii) as paragraph (a)(4)(i)(B)(2)(iv) and adding a new paragraph (a)(4)(i)(B)(2)(v). In making this amendment, we inadvertently omitted the revision to the cross-reference in paragraph (a)(4)(i)(B)(3). In this proposed rule, we are proposing to make further revisions to § 425.600(a)(4)(i)(B)(2), which would also affect the cross-reference in paragraph (a)(4)(i)(B)(3). Therefore, we propose to revise § 425.600(a)(4)(i)(B)(2) to remove the reference to paragraph (a)(4)(i)(B)(2)(iii) and replace it with a reference to paragraph (a)(4)(i)(B)(2)(v).

XI. MedPAC Recommendations

Under section 1886(e)(4)(B) of the Act, the Secretary must consider MedPAC’s recommendations regarding hospital inpatient payments. Under section 1886(e)(5) of the Act, the Secretary must publish in the annual proposed and final IPPS rules the Secretary’s recommendations regarding MedPAC’s recommendations. We have reviewed MedPAC’s March 2021 “Report to the Congress: Medicare Payment Policy” and have given the recommendations in the report consideration in conjunction with the proposed policies set forth in this proposed rule. MedPAC recommendations for the IPPS for FY 2022 are addressed in Appendix B to this proposed rule.


XII. Other Required Information

A. Publicly Available Files

IPPS-related data are available on the internet for public use. The data can be found on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index. Following is a listing of the IPPS-related data files that are available.

As discussed in section II.A. of the preamble of this proposed rule, we are proposing to use the FY 2019 data for the FY 2022 IPPS and LTCH PPS ratessetting for circumstances where the FY 2020 data is significantly impacted by the COVID–19 PHE. As discussed in section I.O. of Appendix A of this proposed rule, as an alternative to our proposed approach, we considered using the FY 2020 data we would ordinarily use in the FY 2022 IPPS and LTCH PPS ratessetting in order to facilitate comments on this alternative approach, which we may consider finalizing for FY 2022 based on consideration of comments received, we are making available the FY 2020 MedPAR file and the FY 2019 HCRIS file that we would ordinarily have provided in conjunction with this proposed rule, as well as other proposed rule supporting data files based on the use of the FY 2020 data, including the IPPS and LTCH PPS Impact Files, the AOR/BOR File, the Case Mix Index File, and the Standardizing File. We refer the reader to section I.O. of Appendix A of this proposed rule for a discussion of the files that we are making available with regard to our alternative approach of using the FY 2020 data that we would ordinarily use in the FY 2022 IPPS and LTCH PPS ratessetting.

Commenters interested in discussing any data files used in construction of this proposed rule should contact Michael Treitel at (410) 786–4552.

1. CMS Wage Data Public Use File

This file contains the hospital hours and salaries from Worksheet S–3, parts II and III from FY 2018 Medicare cost reports used to create the proposed FY 2022 IPPS wage index. Multiple versions of this file are created each year. For a discussion of the release of different versions of this file, we refer readers to section III.L. of the preamble of this proposed rule.


2. CMS Occupational Mix Data Public Use File

This file contains the CY 2019 occupational mix survey data to be used to compute the occupational mix adjusted wage indexes. Multiple versions of this file are created each year. For a discussion of the release of different versions of this file, we refer readers to section III.L. of the preamble of this proposed rule.


3. Provider Occupational Mix Adjustment Factors for Each Occupational Category Public Use File

This file contains each hospital’s occupational mix adjustment factors by occupational category. Two versions of these files are created each year to support the rulemaking.


4. Other Wage Index Files

CMS releases other wage index analysis files after each proposed and final rule. Media: internet at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/Wage-Index-Files.html. Periods Available: FY 2005 through FY 2022.

5. FY 2022 IPPS FIPS CBSA State and County Crosswalk

This file contains a crosswalk of State and county codes used by the Federal Information Processing Standards (FIPS), county name, and a list of Core Based Statistical Areas (CBSAs).
6. HCRIS Cost Report Data

The data included in this file contain cost reports with fiscal years ending on or after September 30, 1996. These data files contain the highest level of cost report status.

Media: internet at: https://www.cms.gov/Research-Statistics-Dataand-Systems/Downloadable-Public-UseFiles/Cost-Reports/Cost-Reports-byFiscal-Year.html. (We note that data are no longer offered on a CD. All of the data collected are now available free for download from the cited website.)

7. Provider-Specific File

This file is a component of the PRICER program used in the MAC’s system to compute DRG/MS–DRG payments for individual bills. The file contains records for all prospective payment system eligible hospitals, including hospitals in waiver States, and data elements used in the prospective payment system recalibration processes and related activities. Beginning with December 1988, the individual records were enlarged to include pass-through per diems and other elements.

Media: internet at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/Provider-Feedback-Systems/Physician-Fee-SvcPmtGen/psf_text.html.

Period Available: Quarterly Update.

8. CMS Medicare Case-Mix Index File

This file contains the Medicare case-mix index by provider number based on the MS–DRGs assigned to the hospital’s discharges using the GROUPER version in effect on the date of the discharge. The case-mix index is a measure of the costliness of cases treated by a hospital relative to the cost of the national average of all Medicare hospital cases, using DRG/MS–DRG weights as a measure of relative costliness of cases. Two versions of this file are created each year to support the rulemaking.


9. MS–DRG Relative Weights (Also Table 5—MS–DRGs)

This file contains a listing of MS–DRGs, MS–DRG narrative descriptions, relative weights, and geometric and arithmetic mean lengths of stay for each fiscal year. Two versions of this file are created each year to support the rulemaking.


10. IPPS Payment Impact File

This file contains data used to estimate payments under Medicare’s hospital inpatient prospective payment systems for operating and capital-related costs. The data are taken from various sources, including the Provider-Specific File, HCRIS Cost Report Data, MedPAR Limited Data Sets, and prior impact files. The data set is abstracted from an internal file used for the impact analysis of the changes to the prospective payment systems published in the Federal Register. Two versions of this file are created each year to support the rulemaking.


11. AOR/BOR File

This file contains data used to develop the MS–DRG relative weights. It contains mean, maximum, minimum, standard deviation, and coefficient of variation statistics by MS–DRG for length of stay and standardized charges. The BOR file is “Before Outliers Removed” and the AOR file is “After Outliers Removed.” (Outliers refer to statistical outliers, not payment outliers.) Two versions of this file are created each year to support the rulemaking.


12. Prospective Payment System (PPS) Standardizing File

This file contains information that standardizes the charges used to calculate relative weights to determine payments under the hospital inpatient operating and capital prospective payment systems. Variables include wage index, cost-of-living adjustment (COLA), case-mix index, indirect medical education (IME) adjustment, disproportionate share, and the CoreBased Statistical Area (CBSA). The file supports the rulemaking.


13. MS–DRG Relative Weights Cost Centers File

This file provides the lines on the cost report and the corresponding revenue codes that we used to create the 19 national cost center cost-to-charge ratios (CCRs) that we used in the relative weight calculation.

Media: internet at: https://www.cms.gov/Medicare/Medicare-
VerDate Sep<11>2014 22:20 May 07, 2021 Jkt 253001 PO 00000 Frm 00613 Fmt 4701 Sfmt 4702 E:\FR\FM\10MYP2.SGM 10MYP2

Federal Register / Vol. 86, No. 88 / Monday, May 10, 2021 / Proposed Rules

25681

PPS/index.html (on the navigation panel on the left side of the page, click on the FY 2022 proposed rule home page or the FY 2022 final rule home page) or https://www.cms.gov/Medicare/Medicare- Fee-for-Service-Payment/Acute InpatientPPS/AcuteInpatientFiles-for-Download.html.

**Period Available:** FY 2022 IPPS Update

**14. Hospital Readmissions Reduction Program Supplemental File**

Updated data are not available at this time. Therefore, we refer readers to the FY 2021 IPPS/LTCH PPS final rule supplemental file, which has the most recent finalized payment adjustment factor components and is the same data as would have been used to create the FY 2022 IPPS/LTCH PPS proposed rule supplemental file.

Media: internet at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/Acute InpatientPPS/AcuteInpatientFiles-for-Download.html.

Period Available: FY 2022 IPPS Update.

**15. Medicare Disproportionate Share Hospital (DSH) Supplemental File**

This file contains information on the calculation of the uncompensated care payments for FY 2022. Variables include the data used to determine a hospital’s share of uncompensated care payments, total uncompensated care payments and estimated per claim uncompensated care payment amounts.

The file supports the rulemaking. Media: internet at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html (on the navigation panel on the left side of the page, click on the FY 2022 proposed rule home page or the FY 2022 final rule home page) or https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/AcuteInpatientFiles-for-Download.html.

Period Available: FY 2022 IPPS Update.

**16. New Technology Thresholds File**

This file contains the cost thresholds by MS–DRG that are generally used to evaluate applications for new technology add-on payments for the fiscal year that follows the fiscal year that is otherwise the subject of the rulemaking. (As discussed in section II.G. of this proposed rule, we use the proposed threshold values associated with the proposed rule for that fiscal year to evaluate the cost criterion for applications for new technology add-on payments and previously approved technologies that may continue to receive new technology add-on payments, if those technologies would be assigned to a proposed new MS–DRG for that same fiscal year.) Two versions of this file are created each year to support rulemaking. (We note that the information in this file was previously provided in Table 10 of the annual IPPS proposed and final rules (83 FR 41739).)

Media: internet at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.html (on the navigation panel on the left side of the page, click on the applicable fiscal year’s proposed rule or final rule home page) or https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/AcuteInpatientFiles-for-Download.html.

Period Available: For FY 2022 and FY 2023 applications.

**B. Collection of Information Requirements**

1. **Statutory Requirement for Solicitation of Comments**

Under the Paperwork Reduction Act (PRA) of 1995, we are required to provide 60-day notice in the Federal Register and solicit public comment before a collection of information requirement is submitted to the Office of Management and Budget (OMB) for review and approval. In order to fairly evaluate whether an information collection should be approved by OMB, section 3506(c)(2)(A) of the PRA of 1995 requires that we solicit comment on the following issues:

- The need for the information collection and its usefulness in carrying out the proper functions of our agency.
- The accuracy of our estimate of the information collection burden.
- The quality, utility, and clarity of the information to be collected.
- Recommendations to minimize the information collection burden on the affected public, including automated collection techniques.

In this proposed rule, we are soliciting public comment on each of these issues for the following sections of this document that contain information collection requirements (ICRs).

2. **ICRs Relating to the Hospital Readmissions Reduction Program**

In section V.G. of the preamble of this proposed rule, we discuss proposed requirements for the Hospital Readmissions Reduction Program. In this proposed rule, we are not proposing to remove or adopt any new measures into the Hospital Readmissions Reduction Program for FY 2022. All six of the current Hospital Readmissions Reduction Program’s measures are claims-based measures. We believe that continuing to use these claims-based measures would not create or reduce any information collection burden for hospitals because they will continue to be collected using Medicare FFS claims that hospitals are already submitting to the Medicare program for payment purposes.

In section V.G.6. of the preamble of this proposed rule, we discuss our proposal to suppress the Hospital 30-Day, All-Cause, Risk-Standardized Readmission Rate (RSRR) following Pneumonia Hospitalization measure (NQF #0506) due to the significant impact of the COVID–19 Public Health Emergency on this measure, for FY 2023. However, we believe that the proposed updates to these claims-based measures would not create or reduce any information collection burden for hospitals because they will continue to be collected using Medicare FFS claims that hospitals are already submitting to the Medicare program for payment purposes.

3. **ICRs for the Hospital Value-Based Purchasing (VBP) Program**

In section V.H. of the preamble of this proposed rule, we discuss proposed requirements for the Hospital VBP Program. Specifically, in this proposed rule, with respect to quality measures, we are proposing to suppress the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Survey, Medicare Spending per Beneficiary (MSPB), and the five hospital-acquired infection (HAI) measures for the FY 2022 program year. We are also proposing to remove the CMS PSI 90 measure beginning with the FY 2023 program year and suppress the Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Pneumonia Hospitalization (MORT–30–PN) measure for the FY 2023 program year. Because the FY 2022 and FY 2023 Hospital VBP Program will use data that are also used to calculate quality measures in other programs and Medicare fee-for-service claims data that hospitals are already submitting to CMS for payment purposes, we do not anticipate any change in burden associated with this proposed rule.
4. ICRs for the Hospital Acquired Condition (HAC) Reduction Program

In this proposed rule, we are not proposing to remove any measures, adopt any new measures into the HAC Reduction Program, or update our validation procedures. The HAC Reduction Program has adopted six measures. We do not believe that the claims-based CMS PSI 90 measure in the HAC Reduction Program creates or reduces any burden for hospitals because it is collected using Medicare FFS claims. Hospitals are already submitting to the Medicare program for payment purposes. We note the burden associated with collecting and submitting data for the HAIs measures (CAUTI, CLABSI, Colon and Abdominal Hysterectomy SSI, MRSA bacteremia, and CDI) via the NHSN system is captured under a separate OMB control number, 0920–0666 (expiration November 30, 2021), and therefore will not impact our burden estimates.

5. ICRs Regarding the Implementation of Section 126 of the Consolidated Appropriations Act—Distribution of Additional Residency Positions

As discussed in section V.J.2.a. of the preamble of this proposed rule, teaching hospitals would be able to submit electronic applications to CMS for resident slot increase requests. The burden associated with these requests will be discussed in a forthcoming information collection request, which is currently under development. However, upon completion of the ICR, we will publish the required 60-day and 30-day notices to solicit public comments in accordance with the requirements of the PRA.

6. ICR for Proposed Repeal of Market-Based MS–DRG Relative Weight Data Collection

In the FY 2021 IPPS/LTCH PPS final rule, we finalized a requirement for a hospital to report on the Medicare cost report the median payer-specific negotiated charge that the hospital has negotiated with all of its MA organization payers, by MS–DRG, for cost reporting periods ending on or after January 1, 2021 (85 FR 58873 through 58892); this data collection requirement is specified in 42 CFR 413.20(d)(3). We also finalized the use of this data in a new market-based methodology for calculating the IPPS MS–DRG relative weights to reflect relative market-based pricing, beginning in FY 2024.

Specifically, we finalized that we will begin using the reported median payer-specific negotiated charge by MS–DRG for MA organizations in the market-based MS–DRG relative weight methodology beginning with the relative weights calculated for FY 2024. Further instructions for the reporting of this market-based data on the Medicare cost report were discussed in the revision of the ICR currently approved under OMB control number 0938–0050, expiration date March 31, 2022 and published on November 10, 2020 (for more information we refer readers to https://www.federalregister.gov/documents/2020/11/10/2020-24948/agency-information-collection-activities-proposed-collection-comment-request and https://www.cms.gov/regulations-and-guidance/legislation/paperwork-reductionactof1995pra-listing/cms-2552-10).

In the FY 2021 IPPS/LTCH PPS final rule we estimated an average annual burden per hospital of 20 hours (5 hours for recordkeeping and 15 hours for reporting) for completing the Worksheet S–12 and complying with 42 CFR 413.20(d)(3). The 20 hours per hospital to complete the Worksheet S–12 includes 5 hours for recordkeeping, including bookkeeping, accounting and auditing clerk tasks. The remaining 15 hours for reporting include accounting and audit professionals’ activities. We estimated that 3,189 hospitals would be required to comply with this market-based data collection requirement. This equated to an estimated total annual burden hours as follows: 3,189 hospitals times 20 hours per hospital equals 63,780 annual burden hours.1519 We calculated a total annual cost of $1,353,404 per hospital, or $4,315,993 across all hospitals. We refer readers to 85 FR 59015 for further information.

Section V.L. of the preamble of this proposed rule discusses the proposed repeal of the market-based MS–DRG relative weight data collection and market-based methodology for calculating MS–DRG relative weights. If we were to finalize our proposal to repeal the market-based data collection and relative weight methodology, we estimate a reduction of 63,780 annual burden hours for hospitals, which equals a reduction of $4,315,993 across all hospitals.

7. ICRs for the Hospital Inpatient Quality Reporting (IQR) Program

a. Background

The Hospital IQR Program (formerly referred to as the Reporting Hospital Quality Data for Annual Payment Update (RHQDAPU) Program) was originally established to implement section 501(b) of the MMA, Public Law 108–173. OMB has currently approved 1,572,443 hours of burden and approximately $61 million under OMB control number 0938–1022, accounting for information collection burden experienced by approximately 3,300 IPPS hospitals and 1,100 non-IPPS hospitals for the FY 2023 payment determination. In this proposed rule, we describe the burden changes regarding collection of information under OMB control number 0938–1022 (expiration date December 31, 2022) for IPPS hospitals due to the proposals in this proposed rule.

We refer readers to section IX.C. for more detail on our proposals. In this year’s proposed rule, we are making several proposals which, if finalized, would affect the information collection burden associated with the Hospital IQR Program. We are proposing to adopt the: (1) Maternal Morbidity Structural Improvement Measure beginning with a shortened reporting period from October 1 through December 31, 2021 (affecting the FY 2023 payment determination), followed by annual reporting periods for subsequent years; and (2) Hybrid Hospital-Wide All-Risk Standardized Mortality measure with Claims and Electronic Health Record Data (Hybrid HWM measure) beginning with a one-year voluntary reporting period (July 1, 2022 through June 30, 2023), followed by mandatory reporting beginning with the July 1, 2023 through June 30, 2024 reporting period/FY 2026 payment determination. We expect these proposals will affect our collection of information burden estimates. Details on these policies as well as the expected burden changes are discussed further in this section of this proposed rule.

We are also proposing several updates which would not affect the information collection burden associated with the Hospital IQR Program. In section IX.C. of the preamble to this proposed rule, we are proposing to: (1) Adopt the Hospital Harm—Severe Hyperglycemia electronic clinical quality measure (eCQM) beginning with the CY 2023 reporting period/FY 2025 payment determination; (2) adopt the Hospital Harm—Severe Hypoglycemia eCQM beginning with the CY 2023 reporting period/FY 2025 payment determination; (3) adopt the COVID–19 Vaccination Coverage Among HCP measure beginning with a shortened reporting period from October 1 to December 31, 2021, affecting the CY 2022 reporting period/FY 2023 payment determination; (4) remove the Death Rate among

---

1519 This estimate was finalized in the FY 2021 IPPS/LTCH PPS final rule. These estimates were based on the most recent data, available at the time of the final rule, from the System for Tracking Audit and Reimbursement, an internal CMS data system maintained by the Office of Financial Management (OFM).
Surgical Inpatients with Serious Treatable Complications (CMS PSL-04) claims-based measure beginning with the FY 2023 payment determination; (5) remove the Admit Decision Time to ED Departure Time for Admitted Patients (ED-2) eCQM measure beginning with the CY 2024 reporting period/FY 2026 payment determination; (6) remove the Exclusive Breast Milk Feeding (PC-05) eCQM measure beginning with the CY 2024 reporting period/FY 2026 payment determination; (7) remove the Anticoagulation Therapy for Atrial Fibrillation/Flutter (STK-03) eCQM measure beginning with the CY 2024 reporting period/FY 2026 payment determination; (8) remove the Discharged on Statin Medication (STK-06) eCQM measure beginning with the CY 2024 reporting period/FY 2026 payment determination; (9) revise the Program’s regulations at 42 CFR 412.140(a)(2) by replacing the term “QualityNet Administrator” with the term “QualityNet security official” and 42 CFR 412.140(e)(2)(ii) by replacing the term “QualityNet system administrator” with the term “QualityNet security official”; (10) revise the Program’s regulations at 42 CFR 412.140(a)(1) and 42 CFR 412.140(c)(2)(i) to remove references to “QualityNet.org” and replacing it with “QualityNet website”; (11) require the use of the 2015 Edition Cures Update for certification criteria beginning with the CY 2023 reporting period/FY 2025 payment determination and for subsequent years for both eCQMs and hybrid measures; and (12) extend the effects of educational reviews for fourth quarter data such that if an error is identified during the education review process for fourth quarter data, we would use the corrected quarterly score to compute the final confidence interval used for payment determination beginning with validations affecting the FY 2024 payment determination. As discussed further in this proposed rule, we do not expect these proposals to affect our information collection burden estimates.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 59008), we estimated that reporting measures for the Hospital IQR Program could be accomplished by staff with a median hourly wage of $19.40 per hour. We note that since then, more recent wage data have become available, and we are updating the wage rate used in these calculations in this proposed rule. The most recent data from the Bureau of Labor Statistics reflects a median hourly wage of $20.50 per hour for a medical records and health information technician professional. We calculated the cost of overhead, including fringe benefits, at 100 percent of the median hourly wage, consistent with previous years. This is necessarily a rough adjustment, both because fringe benefits and overhead costs vary significantly by employer and methods of estimating these costs vary widely in the literature. Nonetheless, we believe that doubling the hourly wage rate ($20.50 × 2 = $41.00) to estimate total cost is a reasonably accurate estimation method. Accordingly, we will calculate cost burden to hospitals using a wage plus benefits estimate of $41.00 per hour throughout the discussion in this section of this rule for the Hospital IQR Program.

b. Information Collection Burden Estimate for the Proposed Maternal Morbidity Structural Measure

In section IX.C.5.a. of the preamble of this proposed rule, we are proposing to adopt the Maternal Morbidity Structural Measure beginning with the CY 2021 reporting period/FY 2023 payment determination. The shortened data submission period for the Maternal Morbidity Structural Measure would run from October 1 through December 31, 2021, followed by annual reporting periods for subsequent years. Reporting on the Maternal Morbidity Structural Measure would involve each hospital responding to a single question using a web-based tool available via the QualityNet Secure Portal (also referred to as the Hospital Quality Reporting (HQR) System) with one of the following response options: (A) “Yes”; (B) “No”; or (C) “N/A (our hospital does not provide inpatient labor/delivery care).”

If our proposal is finalized, hospitals would be required to submit the response on an annual basis during the submission period. We estimate the information collection burden associated with this proposed structural measure to be no more than five minutes per hospital per year, as it involves responding to a single question one time per year for a given reporting period. Using the estimate of 5 minutes (or 0.083 hours) per hospital per year, and the updated wage estimate as described previously, we estimate that this policy will result in a total annual burden increase of 275 hours across all IPPS hospitals (0.083 hours × 3,300 IPPS hospitals) at a cost of $11,275 (275 hours × $41).

c. Information Collection Burden Estimate for the Proposed Voluntary Reporting Period and Subsequent Required Submission of the Hybrid Hospital-Wide Mortality Measure With Claims and Electronic Health Record Data

In section IX.C.5.b. of the preamble of this proposed rule, we are proposing to establish a voluntary reporting period for the Hybrid Hospital-Wide Mortality Measure with Claims and Electronic Health Record Data (NQF #3502) (Hybrid HWM measure). The voluntary reporting period would run from July 1, 2022 through June 30, 2023. We also are proposing to require reporting of the Hybrid HWM measure beginning with the reporting period which would run from July 1, 2023 through June 30, 2024 affecting the FY 2026 payment determination and for subsequent years.

As a hybrid measure, this measure uses both claims-based data and EHR data, specifically, a set of core clinical data elements consisting of vital signs and laboratory test information and patient linking variables collected from hospitals’ EHR systems. We do not expect any additional burden to hospitals to report the claims-based portion of this measure because these data are already reported to the Medicare program for payment purposes.

However, we do expect that hospitals would experience burden in reporting the EHR data. To report the EHR data, hospitals would use the same submission process as finalized in the FY 2020 IPPS/LTCH PPS final rule for reporting the Hybrid Hospital-Wide All-Cause Readmission Measure with Claims and EHR Data (NQF #2879) (Hybrid HWR measure) (84 FR 42505 through 42508). We expect the burden associated with reporting of the Hybrid HWM measure to be similar to our estimates for reporting the Hybrid HWR measure, that is, 10 minutes per measure, per quarter. Therefore, using the estimate of 10 minutes per measure per quarter (10 minutes × one measure × four quarters = 40 minutes), we estimate that our proposal will result in a burden increase of 40 minutes (0.67 hours) per hospital per year.

Beginning with the voluntary reporting period, which runs from July 1, 2022 through June 30, 2023, we estimate an annual burden increase of 2,200 hours across participating IPPS hospitals (0.67 hours × 3,300 IPPS hospitals). Using the updated wage estimate, as previously described, we estimate this to represent a cost increase of $90,200 across IPPS hospitals ($41 × 2,200 hours). If our proposal to adopt...
the Hybrid HWM measure is finalized, we will encourage all hospitals to submit data for the Hybrid HWM measure during the voluntary reporting period. For that reason, our burden estimates assume that all hospitals would participate during the voluntary reporting period (July 1, 2022 through June 30, 2023) as well as for the required reporting period (July 1, 2023 through June 30, 2024) and subsequent reporting periods for which public reporting would begin. Due to the voluntary reporting period beginning in the third quarter of the CY 2022 Reporting Period/FY 2024 Payment Determination, the total burden of for the first year assumes only two quarters of reporting and is estimated to be 1,100 hours (0.33 hours × 3,300 IPPS hospitals) at a cost of $45,100 ($41 × 1,100 hours). Beginning with the CY 2023 Reporting Period/FY 2025 Payment Determination, the total burden estimate will be based on four quarters of reporting.

d. Information Collection Burden Estimate for the Proposed Adoption of Two Hospital Harm eCQMs Beginning With the CY 2022 Reporting Period/FY 2024 Payment Determination and Removal of Four eCQMs Beginning With the CY 2024 Reporting Period/FY 2026 Payment Determination

In section IX.C.5.d. of the preamble of this proposed rule, we are proposing to adopt two eCQMs beginning with the CY 2023 reporting period/FY 2025 payment determination: (1) Hospital Harm—Severe Hyperglycemia eCQM; and (2) Hospital Harm—Severe Hypoglycemia eCQM. Also, in section IX.C.6. of this proposed rule, we are proposing to remove four eCQMs beginning with the CY 2024 reporting period/FY 2026 payment determination: (1) Admit Decision Time to ED Departure Time for Admitted Patients (ED–2); (2) Exclusive Breast Milk Feeding (PC–05); (3) Anticoagulation Therapy for Atrial Fibrillation/Flutter (STK–09); and (4) Discharged on Statin Therapy for Atrial Fibrillation/Flutter (PC–05). We do not believe that our proposals to add two eCQMs and remove four eCQMs from the eCQM measure set will affect the information collection burden of submitting eCQMs under the Hospital IQR Program. Current Hospital IQR Program policy requires hospitals to select four eCQMs from the eCQM measure set on which to report (84 FR 42503 through 42503). In other words, while these proposals would result in new eCQMs being added to and some eCQMs being removed from the eCQM measure set, hospitals will not be required to report more than a total of four eCQMs as is currently required (84 FR 42603).

Specifically, we finalized in the FY 2020 IPPS/LTCH PPS final rule that, for the CY 2021 reporting period/FY 2023 payment determination, hospitals are required to submit data for four self-selected eCQMs each year (84 FR 42503). Additionally, for the CY 2022 reporting period/FY 2024 payment determination, hospitals are required to submit data for three self-selected eCQMs and the Safe Use of Opioids—Concurrent Prescribing eCQM for a total of four eCQMs (84 FR 42505). We also finalized a policy to progressively increase the number of quarters of eCQM data reported, from one quarter of data to four quarters of data over a 3-year period beginning with two quarters in the CY 2021 reporting period/FY 2023 payment determination and culminating with four quarters in the CY 2023 reporting period/FY 2025 payment determination (85 FR 59008 through 59009). The new eCQMs proposed in this proposed rule would update the available eCQMs in the eCQM measure set from which hospitals may choose to report to satisfy these requirements. Therefore, we do not expect that our proposals to adopt or remove these measures would impact our information collection burden estimates. However, we refer readers to section I.K. of Appendix A of this proposed rule for a discussion of the potential costs associated with the implementation and removal of eCQMs which are not strictly related to information collection burden.

e. Information Collection Burden Estimate for the Proposed Removal of the Death Rate Among Surgical Inpatients With Serious Treatable Complications (CMS PSI–04) Claims-Based Measure Beginning With the FY 2023 Payment Determination

In section IX.C.6.a. of the preamble of this proposed rule, we are proposing to remove the Death Rate Among Surgical Inpatients with Serious Treatable Complications (CMS PSI–04) claims-based measure beginning with the CY 2021 reporting period/FY 2023 payment determination. Because PSI–04 is calculated using data that are already reported to the Medicare program for payment purposes, we do not anticipate that removing this measure will decrease our previously finalized burden estimates.

f. Information Collection Burden Estimate for the Proposed Adoption of the COVID–19 HCP Vaccination Measure Beginning With an Interim Reporting Period in CY 2021

In section IX.C.5.e. of the preamble of this proposed rule, we are proposing to adopt a COVID–19 HCP Vaccination Measure beginning with a shortened reporting period from October 1 to December 31, 2021, affecting the CY 2021 reporting period/FY 2023 payment determination followed by quarterly reporting periods for the FY 2024 payment determination and for subsequent years. Hospitals would submit data through the Centers for Disease Control and Prevention (CDC)/National Healthcare Safety Network (NHSN). The NHSN is a secure, internet-based system maintained by the CDC and provided free. Currently the CDC does not estimate burden for COVID–19 vaccination reporting under the CDC PRA (OMB control number 0920–1317) because the agency has been granted a waiver under Section 321 of the National Childhood Vaccine Injury Act (NCVIA). As such, the proposed measure would not impose any additional information collection burden for IPPS hospitals for the duration of the PHE. Although the burden associated with the COVID–19 Vaccination Among HCP measure is not accounted for under the CDC PRA 0920–1317 or 0920–0666 due to the NCVIA waiver, the cost and burden information is included in the Regulatory Impact Analysis section (Appendix A, section I.K.) of this rule. Upon receiving comment, we will work with CDC to ensure that this burden is accounted for in an updated PRA under OMB control number 0920–1317.

g. Information Collection Burden Estimates for the Proposals To Adopt the 2015 Edition Cures Update Criteria for Certified EHR Technology (CEHRT) Beginning With the CY 2023 Reporting Period/FY 2025 Payment Determination for eCQMs and Hybrid Measures

In sections IX.C.8.e.2.(a). and IX.C.8.f.2.(b). of the preamble of this proposed rule, we are proposing to require hospitals to use the 2015 Edition Cures Update beginning with the CY 2023 reporting period/FY 2025 payment determination and subsequent years. Under this proposal, hospitals would no longer be able to use the 2015 Edition Cures Update Criteria for eCQMs and Hybrid Measures. The PRA for the 2015 Edition Cures Update Criteria for eCQMs and Hybrid Measures, including the estimates for the CY 2021 reporting period/FY 2023 payment determination, was finalized in the CY 2021 IPPS Final Rule (86 FR 19738 through 19739). As such, we will not conduct a PRA for the CY 2023 reporting period/FY 2025 payment determination and subsequent years. Under this proposal, hospitals would no longer be able to use the 2015 Edition Cures Update Criteria for eCQMs and Hybrid Measures.
CEHRT criteria to submit data for the Hospital IQR Program data submission requirements for eCQMs or hybrid measures beginning with the CY 2023 reporting period/FY 2025 payment determination. We do not expect that these proposals, if finalized, would affect our information collection burden estimates because this policy does not require hospitals to submit new data to CMS (83 FR 41692). With respect to any costs unrelated to data submission, we refer readers to section I.K. of Appendix A of this proposed rule.

h. Information Collection Burden Estimate for the Proposals To Update References and Code of Federal Regulations Text Relating to QualityNet Security Administrator

In section IX.C.8.c.2. of the preamble of this proposed rule, we are proposing to use the term “QualityNet security official” instead of “QualityNet Administrator.” Specifically, we are proposing to revise existing § 412.140(a)(2) by replacing “QualityNet Administrator” with “QualityNet security official” and § 412.140(e)(2)(iii) by replacing “QualityNet system administrator” with “QualityNet security official.” We expect that our proposals will not yield a change in burden for the hospitals participating in the Hospital IQR Program since the changes only seek to refine regulatory text.

i. Information Collection Burden Estimate for the Proposal To Update References to the QualityNet Website in the Hospital IQR Program Regulation Text

In section IX.C.8.c.(1). of the preamble of this proposed rule, we are proposing to update the references to the QualityNet website from “QualityNet.org” to “the QualityNet website” in the Hospital IQR Program regulation text. Specifically, we are proposing to revise existing § 412.140(a)(1) and (c) to remove references to “QualityNet.org” and replace with “QualityNet website.” We expect that our proposals will not yield a change in burden for the hospitals participating in the Hospital IQR Program since the changes only seek to refine regulatory text.

j. Information Collection Burden Estimate for the Proposal To Extend the Effects of the Educational Review Process for Chart-Abstracted Measures for the FY 2024 Payment Determination and Subsequent Years

In section IX.C.9.b.(1),(b). of the preamble, we are proposing to extend the educational review policy to use the corrected quarterly score identified through an educational review to compute the final confidence interval for all 4 quarters of validation for chart-abstracted measures. We expect that our proposal will not yield a change in burden as it does not affect the requirements for data submission for hospitals, but only modifies how CMS uses the data already being submitted.

k. Summary of Information Collection Burden Estimates for the Hospital IQR Program

In summary, under OMB control number 0938–1022, we estimate that the policies promulgated in this proposed rule will result in an increase of 2,475 hours annually for 3,300 IPPS hospitals across a 4-year period from the CY 2022 reporting period/FY 2024 payment determination through the CY 2025 reporting period/FY 2027 payment determination. The total cost increase related to this information collection is approximately $101,475 (2,475 hours × $41.00/hour) (which also reflects use of an updated hourly wage rate as previously discussed). The tables summarize the total burden changes for each respective FY payment determination compared to our currently approved information collection burden estimates (the table for the FY 2027 payment determination reflects the cumulative burden changes). We will submit the revised information collection estimates to OMB for approval under OMB control number 0938–1022.
### Summary of Hospital IQR Program Information Collection Burden Change for the CY 2022 Reporting Period/FY 2024 Payment Determination

<table>
<thead>
<tr>
<th>Activity</th>
<th>Estimated time per record (minutes)</th>
<th>Number reporting quarters per year</th>
<th>Number of IPPS hospitals reporting</th>
<th>Average number records per hospital per quarter</th>
<th>Annual burden (hours) per hospital</th>
<th>Proposed annual burden (hours) across IPPS hospitals</th>
<th>Previously finalized annual burden (hours) across IPPS hospitals</th>
<th>Net difference in annual burden hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Maternal Morbidity Structural Measure</td>
<td>5</td>
<td>1</td>
<td>3,300</td>
<td>1</td>
<td>0.083</td>
<td>275</td>
<td>N/A</td>
<td>+275</td>
</tr>
<tr>
<td>Add Hybrid Hospital-Wide Mortality Measure</td>
<td>10</td>
<td>2</td>
<td>3,300</td>
<td>1</td>
<td>0.33</td>
<td>+1,100</td>
<td>N/A</td>
<td>-1,100</td>
</tr>
<tr>
<td><strong>Total Change in Information Collection Burden Hours:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Total Cost Estimate:** Updated Hourly Wage ($41.00) x Change in Burden Hours (+1,375) = +$56,375
### Summary of Annual Hospital IQR Program Information Collection Burden Change for the CY 2023 Reporting Period/FY 2025 Payment Determination through the CY 2025/FY 2027 Payment Determination

<table>
<thead>
<tr>
<th>Activity</th>
<th>Estimated time per record (minutes)</th>
<th>Number reporting quarters per year</th>
<th>Number of IPPS hospitals reporting</th>
<th>Average number records per hospital per quarter</th>
<th>Annual burden (hours) per hospital</th>
<th>Proposed annual burden (hours) across IPPS hospitals</th>
<th>Previously finalized annual burden (hours) across IPPS hospitals</th>
<th>Net difference in annual burden hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Maternal Morbidity Structural Measure</td>
<td>5</td>
<td>1</td>
<td>3,300</td>
<td>1</td>
<td>0.083</td>
<td>275</td>
<td>N/A</td>
<td>+275</td>
</tr>
<tr>
<td>Add Hybrid Hospital-Wide Mortality Measure</td>
<td>10</td>
<td>4</td>
<td>3,300</td>
<td>1</td>
<td>0.67</td>
<td>2,200</td>
<td>N/A</td>
<td>-2,200</td>
</tr>
</tbody>
</table>

**Total Change in Information Collection Burden Hours:** +2,475

**Total Cost Estimate:** Updated Hourly Wage ($11.00) x Change in Burden Hours (+2,475) = +$11,475
8. ICRs for the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program

As discussed in section IX.D. of the preamble of this final rule, section 1866(k)(1) requires, for purposes of FY 2014 and each subsequent fiscal year, that a hospital described in section 1866(d)(1)(B)(v) of the Act (a PPS-exempt cancer hospital, or a PCH) submit data in accordance with section 1866(k)(2) of the Act with respect to such fiscal year. There is no financial impact to PCH Medicare reimbursement if a PCH does not participate.

In section IX.D.5. of the preamble of this proposed rule, we are proposing to adopt the COVID–19 Vaccination Coverage Among Healthcare Personnel measure beginning with a shortened reporting period from October 1, 2021 through December 31, 2021, affecting the FY 2023 program year, followed by annual reporting periods (affecting the FY 2024 program year and for subsequent years). We are proposing that PCHs would submit data on the measure through the Centers for Disease Control and Prevention (CDC)/National Healthcare Safety Network (NHSN). The NHSN is a secure, internet-based surveillance system maintained by the CDC and provided free of charge to healthcare facilities, including PCHs. Currently the CDC does not estimate burden for COVID–19 vaccination reporting under the CDC PRA package currently approved under OMB control number 0920–1317 because the agency has already received OMB approval.

The NHSN is currently utilized by the LTCHs for purposes of calculating the FY 2023 Annual Payment Update (APU). We propose that LTCHs submit data on one new quality measure: COVID–19 Vaccination Coverage among Healthcare Personnel (HCP). The data source for this quality measure is the Centers for Disease Control and Prevention (CDC)/National Healthcare Safety Network (NHSN). LTCHs would submit the COVID–19 Vaccination Coverage among Healthcare Personnel (HCP) measure data to CMS through the NHSN, a web-based tool hosted by the CDC. This reporting service is provided free of charge to healthcare facilities. LTCHs currently utilize the NHSN for purposes of meeting other LTCH QRP requirements.

We believe that the burden associated with the LTCH QRP is the time and effort associated with complying with the requirements of the LTCH QRP. The burden associated with the COVID–19 Vaccination Coverage among HCP measure is not accounted for under the CDC PRA package currently approved under OMB control number 0920–1317 (expiration 1/31/2024). However, the CDC currently has a PRA waiver for the collection and reporting of vaccination data under section 321 of the National Childhood Vaccine Injury Act of 1986 (Pub. L. 99–660, enacted on November 14, 1986 (NCVIA)). CMS has provided an estimate of the burden and cost to LTCHs, and note that the CDC will include it in a revised information collection request for 0920–1317.

Consistent with the CDC’s experience of collecting data using the NHSN, we estimate that it would take each LTCH an average of 1 hour per month to collect data for the COVID–19 Vaccination Coverage among HCP measure and enter it into NHSN. We have estimated the time to complete this entire activity, since it could vary based on provider systems and staff availability. We believe it would take an administrative assistant from 45 minutes up to 1 hour and 15 minutes to enter this data into NHSN. For the purposes of calculating the costs associated with the collection of information requirements, we obtained mean hourly wages from the U.S. Bureau of Labor Statistics’ May 2019 National Occupational Employment and Wage Estimates. To account for overhead and fringe benefits, we have doubled the hourly wage.

1523 Section 321 of the National Childhood Vaccine Injury Act (NCVIA) 1524 provides the PRA waiver for activities that come under the NCVIA, including those in the NCVIA at section 2102 of the Public Health Service Act (42 U.S.C. 300aa–2). Section 321 is not codified in the U.S. Code, but can be found in a note at 42 U.S.C. 300aa–1.
Based on the time range, it would cost each LTCH between $27.47 and $45.78 per hour each month or an average cost of $36.62 each month, and between $329.64 and $549.36 each year, or an average cost of $439.44 each year. We believe the data submission for the COVID–19 Vaccination Coverage among HCP would cause LTCHs to incur additional average burden of 12 hours per year for each LTCH and a total annual burden of 4,608 hours for all LTCHs. The estimated annual cost across all 363 LTCHs in the U.S. for the submission of the COVID–19 Vaccination Coverage among HCP measure would be between $119,659.32 and $199,417.68, and an average of $159,516.72.

We recognize that many LTCHs may also be reporting other COVID–19 data to HHS. However, we believe the benefits of reporting data on the COVID–19 Vaccination Coverage among HCP measure to assess whether LTCHs are taking steps to limit the spread of COVID–19 among HCP, reduce risk of transmission of COVID–19 within their facilities, and to help sustain the ability of LTCHs to continue serving their communities throughout the PHE and beyond outweigh the costs of reporting. We welcome comments on the estimated time to collect data and enter it into CDC/NHSN.

10. ICRs for the Promoting Interoperability Programs

a. Historical Background

In section IX.D. of the preamble of this proposed rule, we discuss several proposals for the Medicare Promoting Interoperability Program. OMB has currently approved 621,318 total burden hours and approximately $61 million under OMB control number 0938–1278, accounting for information collection burden experienced by approximately 3,300 eligible hospitals and CAHs (Medicare-only and dual-eligible) that attest to CMS under the Medicare Promoting Interoperability Program. The collection of information burden analysis in this proposed rule focuses on eligible hospitals and CAHs that attest to the objectives and measures, and report eCQMs, under the Medicare Promoting Interoperability Program for the reporting period in CY 2022, CY 2023, and CY 2024.

b. Summary of Policies for Eligible Hospitals and CAHs That Attest to CMS Under the Medicare Promoting Interoperability Program for CY 2022

In section IX.D.3.b. of the preamble of this rule, we are proposing the following changes for eligible hospitals and CAHs that attest to CMS under the Medicare Promoting Interoperability Program: (1) To maintain the Electronic Prescribing Objective’s Query of PDMP measure as optional while increasing its available bonus from five points to 10 points for the CY 2022 EHR reporting period; (2) to modify technical specifications of the Provide Patient’s Electronic Access to Their Health Information Measure to include establishing a data availability requirement beginning with encounters with a date of service on after January 1, 2016, effective January 1, 2022; (3) to add a new Health Information Exchange (HIE) Bi-Directional Exchange measure as a yes/no attestation, beginning in CY 2022 to the HIE objective as an optional alternative to the two existing measures; (4) to require reporting on four of the existing Public Health and Clinical Data Exchange Objective measures (Syndromic Surveillance Reporting, Immunization Registry Reporting, Electronic Case Reporting, and Electronic Reportable Laboratory Result Reporting); (5) that eligible hospitals and CAHs must attest to having completed an annual assessment via a SAFER Guides measure, under the Protect Patient Health Information Objective, beginning January 1, 2022; (6) to remove attestation statements 2 and 3 from the Promoting Interoperability Program’s prevention of information blocking requirement; and (7) to increase the minimum required score for the objectives and measures from 50 points to 60 points (out of 100 points) in order to be considered a meaningful EHR user. We are amending our regulation text as necessary to incorporate these proposed changes.

c. Summary of Policies for Eligible Hospitals and CAHs That Attest to CMS Under the Medicare Promoting Interoperability Program for CY 2023

In section IX.D.3.b. of the preamble of this rule, we are proposing the following changes for eligible hospitals and CAHs that attest to CMS under the Medicare Promoting Interoperability Program: (1) An EHR reporting period of a minimum of any continuous 90-day period in CY 2023 for new and returning participants (eligible hospitals and CAHs); and (2) to adopt two new eCQMs to the Medicare Promoting Interoperability Program’s eQM measure set beginning with the reporting period in CY 2023, which is in alignment with the proposals under the Hospital IQR Program. We are amending our regulation text as necessary to incorporate these proposed changes.

d. Summary of Policies for Eligible Hospitals and CAHs That Attest to CMS Under the Medicare Promoting Interoperability Program for CY 2024

In section IX.D.3.b. of the preamble of this rule, we are proposing the following changes for eligible hospitals and CAHs that attest to CMS under the Medicare Promoting Interoperability Program: (1) An EHR reporting period of a minimum of any continuous 180-day period in CY 2024 for new and returning participants (eligible hospitals and CAHs); and (2) to remove four eCQMs from the Medicare Promoting Interoperability Program’s eQM measure set beginning with the reporting period in CY 2024, which is in alignment with the proposals under the Hospital IQR Program. We are amending our regulation text as necessary to incorporate these proposed changes.

e. Summary of Collection of Information Burden Estimates

(1) Summary of Estimates Used To Calculate the Collection of Information Burden

In the Medicare and Medicaid Programs: Electronic Health Record Incentive Program—Stage 3 and Modifications to Meaningful Use in 2015 Through 2017 final rule (80 FR 62917), we estimated it will take an individual provider or designee approximately 10 minutes to attest to each objective and associated measure that requires a numerator and denominator to be generated. The measures that require a “yes/no” response will take approximately one minute to complete. We estimated that the Security Risk Analysis measure will take approximately six hours for an individual provider or designee to complete (we note this measure is still part of the program, but is not subject to performance-based scoring).

For this proposed rule, there are two proposed measure changes which would lead to an increase in overall burden to the Medicare Promoting Interoperability Program. First is the updated requirement for the Public Health and Clinical Data Exchange Objective which increases the total number of measures which must be reported from two to four. For CY 2021, the estimated burden associated with reporting on this Objective was one minute, therefore by doubling the number of required measures from two to four, we are estimating the proposed time for CY 2022 would be 2 minutes (or an increase in 0.03 hours per reporting hospital). Although the Objective’s Syndromic Surveillance Reporting measure is proposed to
change its setting for which data is required to be submitted, we don’t anticipate the update from “urgent care” to “emergency department” to change burden hours given that the capacity to submit reports is already an existing part of built-in CEHRT functionality. Second is the proposed requirement for a new measure based on SAFER Guides Reporting, which we have anticipated will take one minute to report (as it is proposed to be completed via a single yes/no attestation response). The proposed inclusion of reporting on this SAFER Guides measure would increase the total burden by 0.02 hours. Lastly, we would like to note that the proposed inclusion of a new HIE Bi-Directional Exchange measure would not have any effect on the estimated reporting burden given that it would be offered as an optional, alternative reporting method to the two current Support Electronic Referral Loops measures, therefore resulting in no net change. Providers will only be required to respond with either the two existing measures or choose the new Bi-Directional Exchange measure, but the amount of associated burden equals the same regardless of their selection and thus does not require any additional change in hours.

In proposing to continue the EHR reporting period as any self-selected 90-days in CY 2023 and any self-selected 180-days in CY 2024, we do not anticipate additional burden due to how the QualityNet attestation system is setup and operated to account for the estimated time spent with reporting (submitting automated reports via CEHRT or attesting to the Program’s objectives and measures wouldn’t be impacted by a longer EHR reporting period). A similar approach applies to the proposal for increasing the scoring threshold from 50 to 60 points, which does not require any expectation that submitting providers would endure a longer time duration of attesting to the Program, especially noting that all objectives and measures are currently required to be reported on (the threshold only indicates the minimum score necessary to be considered a meaningful EHR user). Finally, we do not believe that our proposals aligned with the Hospital IQR Program to add two eCQMs and remove four eCQMs from the eCQM measure set would affect the information collection burden of submitting eCQMs under the Medicare Promoting Interoperability Program. Previously finalized policy requires hospitals to select eCQMs from the eCQM measure set on which to report (85 FR 58970 through 58976). In other words, while these proposals would result in new eCQMs being added to and some eCQMs being removed from the eCQM measure set, hospitals would not be required to report more than a total of four eCQMs as is currently required (85 FR 58970 through 58971). We believe these are appropriate burden estimates for reporting and have used this methodology in our collection of information burden estimates for this proposed rule.

Given the proposals, we estimate a total burden estimate of 6 hours 33 minutes per respondent (roughly 6.5 hours) which is an increase of 2 minutes from the FY 2021 IPPS/LTCH PPS final rule (85 FR 58432).

---

### Medicare Promoting Interoperability Program Estimated Annual Information Collection

#### Burden Per Respondent for CY 2022:

| § 495.24(e) - Objectives/Measures Medicare (Eligible Hospitals/CAHs) |
|---|---|---|
| **Objective** | **Measure** | **Burden Estimate per Eligible Hospital and CAH** |
| Protect Patient Health Information | Security Risk Analysis | 6 hours |
| Protect Patient Health Information | SAFER Guides* | 1 minute* |
| Electronic Prescribing | e-Prescribing Query of PDMP | 10 minutes |
| Health Information Exchange | Support Electronic Referral Loops by Sending Health Information | 10 minutes |
| | Support Electronic Referral Loops by Receiving and Reconciling Health Information | 10 minutes |
| | Health Information Exchange Bi-Directional Exchange * | 2 minutes* |
| Provider to Patient Exchange | Provide Patients Electronic Access to Their Health Information | 10 minutes |
| Public Health and Clinical Data Exchange | Syndromic Surveillance Reporting | |
| | Immunization Registry Reporting | |
| | Electronic Case Reporting | |
| | Public Health Registry Reporting | |
| | Clinical Data Registry -Reporting | |
| | Electronic Reportable Laboratory Result Reporting | |
| | Total Burden Estimate per Respondent | 6 hours 33 minutes (6.5 hours) |

*Indicates a proposed change to the estimated annual information collection burden per respondent.
(2) Hourly Labor Costs

In the Medicare and Medicaid Programs; Electronic Health Record Incentive Program—Stage 3 and Modifications to Meaningful Use in 2015 Through 2017 final rule (80 FR 62917), we estimated a mean hourly rate of $63.46 for the staff involved in attesting to EHR technology, meaningful use objectives and associated measures, and electronically submitting the clinical quality measures. This reflected the mean hourly rate of a lawyer. We had previously used the mean hourly rate of $68.22 for the necessary staff involved in attesting to the objectives and measures under 42 CFR 495.24(e) in the FY 2021 IPPS/LTCH PPS final rule (84 FR 42609). This rate was updated to $69.34 in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59014) based upon recently released 2018 data from the Bureau of Labor Statistics (BLS).1525

The Medicare Promoting Interoperability Program has previously utilized this lawyer hourly wage rate, however, we have determined that it is no longer the most accurate professional among the hospital staff members who are most likely to complete the program’s required electronic responses and attestations for the Program. Rather, we believe hospital staff similar to the staff who report for the Hospital Inpatient Quality Reporting Program are utilized to report for the Medicare Promoting Interoperability Program, specifically, a medical records and health information technician staffing role. We believe that both current and anticipated labor performed by participating hospitals in order to successfully complete the Program’s reporting requirements is accomplished by this technical role and not the position of a lawyer. Therefore, in properly calculating our estimated burden, we propose to replace the existing lawyer’s wage rate of $69.34 with that of a medical records and health information technician’s median wage rate ($20.50 according to the 2019 U.S. Bureau of Labor Statistics). If finalized, it would more accurately reflect the real-world scenario of those staff members performing the required labor.

We calculated the cost of overhead, including fringe benefits, at 100 percent of the median hourly wage, consistent with the Hospital IQR Program. This is necessarily a rough adjustment, both because fringe benefits and overhead costs vary significantly by employer and methods of estimating these costs vary widely in the literature. Nonetheless, we believe that doubling the hourly wage rate ($20.50 × 2 = $41) to estimate total cost is a reasonably accurate estimation method. Accordingly, we will calculate cost burden to hospitals using a wage plus benefits estimate of $41 per hour throughout the discussion in this section of this rule for the Medicare Promoting Interoperability Program.

In summary, if our proposals are finalized as proposed, we estimate a minimal increase in total burden hours for the Medicare Promoting Interoperability Program for CY 2022 (increase of 2 additional minutes per hospital). Using the median hourly wage for a medical records and health information technician, we estimate a burden cost increase for CY 2022 of $1.37 per hospital. We estimate the total annual burden of 21,450 burden hours across 3,300 responses for the Program’s objectives and measures, and we estimate the total burden cost for CY 2022 to be $879,450 (21,450 hours × $41). Given that the total cost estimate for CY 2021 in last year’s final rule was $1,487,343, these proposed updates would result in a net cost decrease of $607,893 for the Medicare Promoting Interoperability Program.

If our proposals are finalized as proposed for CY 2023 and CY 2024, we do not estimate any net change in total burden hours for the Medicare Promoting Interoperability Program when compared to CY 2022 estimates.

In summary, if our proposals are finalized as proposed, we estimate a minimal increase in total burden hours for the Medicare Promoting Interoperability Program for CY 2022 (increase of 2 additional minutes per hospital). Using the median hourly wage for a medical records and health information technician, we estimate a burden cost increase for CY 2022 of $1.37 per hospital. We estimate the total annual burden of 21,450 burden hours across 3,300 responses for the Program’s objectives and measures, and we estimate the total burden cost for CY 2022 to be $879,450 (21,450 hours × $41). Given that the total cost estimate for CY 2021 in last year’s final rule was $1,487,343, these proposed updates would result in a net cost decrease of $607,893 for the Medicare Promoting Interoperability Program.

If our proposals are finalized as proposed for CY 2023 and CY 2024, we do not estimate any net change in total burden hours for the Medicare Promoting Interoperability Program when compared to CY 2022 estimates. CY 2023 proposals only include an extension of the current 90-day EHR reporting period and the adoption of two new eCQMs to the Program’s eCQM measure set (in alignment with the proposals under the Hospital IQR Program), whereas CY 2024 proposals include a 180-day EHR reporting period and the removal of four eCQMs from the Program’s eCQM measure set (in alignment with proposals under the Hospital IQR Program). Both proposals for CY 2023 and CY 2024 have already been detailed to create no net change to the total burden hours and therefore we estimate both years as having the same total cost of $879,450 (21,450 hours × $41).

The burden hours associated with reporting program requirements is currently approved under OMB control number 0938–1278. The updated burden cost estimates discussed in this section will be revised and submitted to OMB for final approval.

### Medicare Promoting Interoperability Program Estimated Annual Information Collection Burden (Total Cost) Finalized for CY 2021

<table>
<thead>
<tr>
<th>Regulations Section</th>
<th>Number of Respondents</th>
<th>Number of Responses</th>
<th>Burden per Response (hours)</th>
<th>Total Annual Burden (hours)</th>
<th>Hourly Labor Cost of Reporting ($)</th>
<th>Total Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 CFR 495.24(e)</td>
<td>3,300</td>
<td>3,300</td>
<td>6.5</td>
<td>21,450</td>
<td>69.34</td>
<td>1,487,343</td>
</tr>
</tbody>
</table>
Medicare Promoting Interoperability Program Estimated Annual Information Collection Burden (Total Cost) Proposed for CY 2022 – CY 2024

<table>
<thead>
<tr>
<th>Regulations Section</th>
<th>Number of Respondents</th>
<th>Number of Responses</th>
<th>Burden per Response (hours)</th>
<th>Total Annual Burden (hours)</th>
<th>Hourly Labor Cost of Reporting ($)</th>
<th>Total Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 CFR 495.24(c)</td>
<td>3,300</td>
<td>3,300</td>
<td>6.5</td>
<td>21,450</td>
<td>41.00</td>
<td>879,450</td>
</tr>
</tbody>
</table>

11. Summary of All Burden in This Proposed Rule

The following chart reflects the total burden and associated costs for the provisions included in this proposed rule.

C. Response to Comments

Because of the large number of public comments we normally receive on Federal Register documents, we are not able to acknowledge or respond to them individually. We will consider all comments we receive by the date and time specified in the DATES section of this preamble, and, when we proceed with a subsequent document, we will respond to the comments in the preamble to that document.

I, Elizabeth Richter, Acting Administrator of the Centers for Medicare & Medicaid Services, approved this document on April 16, 2021.

List of Subjects

42 CFR Part 412
Administrative practice and procedure, Health facilities, Medicare, Puerto Rico, and Reporting and recordkeeping requirements.

42 CFR Part 413
Diseases, Health facilities, Medicare, Puerto Rico, Reporting and recordkeeping requirements.

42 CFR Part 425
Administrative practice and procedure, Health facilities, Health professions, Medicare, and Reporting and recordkeeping requirements.

42 CFR Part 455
Fraud, Grant programs-health, Health facilities, Health professions, Investigations, Medicaid, Reporting and recordkeeping requirements.

42 CFR Part 495
Administrative practice and procedure, Health facilities, Health maintenance organizations (HMO), Health professions, Health records, Medicaid, Medicare, Penalties, Privacy, and Reporting and recordkeeping requirements.

PART 412—PROSPECTIVE PAYMENT SYSTEMS FOR INPATIENT HOSPITAL SERVICES

1. The authority citation for Part 412 continues to read as follows:
   Authority: 42 U.S.C. 1302 and 1395hh.

2. Section 412.1 is amended by revising paragraph (a)(1)(ii), adding paragraph (a)(7), and revising paragraph (b)(2) to read as follows:

§ 412.1 Scope of part.
(a) * * *
(ii) Payment for other costs related to inpatient hospital services is made on a reasonable cost basis as follows:
   (A) Organ acquisition costs incurred by hospitals with approved organ transplant programs.
   (B) The costs of qualified nonphysician anesthetist’s services, as described in § 412.113(c).
   (C) Direct costs of approved nursing and allied health educational programs.
   (D) Costs related to hematopoietic stem cell acquisition for the purpose of an allogeneic hematopoietic stem cell transplant as described in § 412.113(e).

(7) This part implements section 1866(k) of the Act, which directs hospitals described in section 1886(d)(1)(B)(v) of the Act to submit data on quality measures to the Secretary.

(b) * * *
(2) Subpart B of this part sets forth all of the following:
(i) (A) The classifications of hospitals that are included in and excluded from the prospective payment systems specified in paragraph (a)(1) of this section.

(B) Requirements governing the inclusion or exclusion of hospitals in the systems as a result of changes in their classification.

(ii) Requirements for the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program.

§ 412.23 Excluded Hospitals: Classifications.

3. Section 412.23 is amended by revising paragraph (e)(4) to read as follows:

§ 412.23 Basis of payment.

4. Section 412.23 is amended by adding paragraph (f)(3) to read as follows:

§ 412.24 Requirements under the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program.

(a) Applicability. The PCHQR Program applies to hospitals that are classified as cancer hospitals (PCHs) under the criteria described in § 412.23(f)(1) or (2).

(b) Participation in the PCHQR Program. In order to participate in the PCHQR Program, a PCH must do all of the following:

(1) Register with QualityNet (http://qualitynet.cms.gov) prior to reporting, including designating a QualityNet security official who completes all steps of the PCHQR Program registration process as described on the QualityNet website.


(c) Submission of PCHQR Program data. Except as provided in paragraph (e) of this section, PCHs that participate in the PCHQR Program must submit to CMS data on quality measures specified under section 1833(k)(3) of the Act in a form and manner, and at a time, specified by CMS. PCHs that participate in the PCHQR Program must also submit an annual online Data Accuracy and Completeness Acknowledgement via the QualityNet website (http://qualitynet.cms.gov) to attest to the accuracy and completeness of these data by the deadline specified by CMS on the QualityNet website (http://qualitynet.cms.gov).

(d) Quality measure updates, retention, and removal—(1) Updating of measure specifications. CMS uses rulemaking to make substantive updates to the specifications of measures used in the PCHQR Program. CMS announces technical measure specification updates through the QualityNet website (http://qualitynet.cms.gov) and listserv announcements.

(2) Measure retention. Except as provided in paragraph (d)(2)(ii) of this section, all quality measures specified under section 1866(k)(3) for the PCHQR Program measure set remain in the measure set unless CMS, through rulemaking, removes or replaces them.

(3) Measure removal factors—(i) General rule. CMS may remove or replace a quality measure based on one or more of the following factors:

(A) Factor 1. Measure performance among PCHs is so high and unvarying that meaningful distinctions and improvements in performance can no longer be made.

(B) Factor 2. A measure does not align with current clinical guidelines or practice.

(C) Factor 3. The availability of a more broadly applicable measure (across settings or populations) or the availability of a measure that is more proximal in time to desired patient outcomes for the particular topic.

(D) Factor 4. Performance or improvement on a measure does not result in better patient outcomes.

(E) Factor 5. The availability of a measure that is more strongly associated with desired patient outcomes for the particular topic.

(F) Factor 6. The collection or public reporting of a measure leads to negative unintended consequences other than patient harm.

(G) Factor 7. It is not feasible to implement the measure specifications.

(H) Factor 8. The costs associated with a measure outweigh the benefit of its continued use in the program.

(ii) Exception. CMS may retain a quality measure that meets one or more of the measure removal factors described in paragraph (d)(3)(i) of this section if the continued collection of data on the quality measure would align with a stated CMS or HHS policy objective, including, but not limited to, an objective to increase the number of quality measures that a PCH can report electronically, or an objective to collect data on the measure in one or more other CMS quality reporting programs.

(e) Extraordinary circumstances exceptions (ECE). (1) CMS may grant an ECE to a PCH that has requested an extension or exception with respect to quality data reporting requirements in the event of extraordinary circumstances beyond the control of the PCH.

(2) CMS may grant an ECE to one or more PCHs that has not requested an exception if CMS determines that—

(i) An extraordinary circumstance has affected an entire region or locale; or

(ii) A systemic problem with one of CMS’s data collection systems has directly affected the ability of the PCH to submit data in accordance with paragraph (c) of this section.

(3) A PCH participating in the PCHQR Program that wishes to request an ECE must submit an ECE request to CMS via the QualityNet website (https://qualitynet.cms.gov/pch/pchqr/resource) within 90 days of the date that the extraordinary circumstances occurred, along with the following information:

(i) The PCH’s CCN, name, reason for requesting an extension or exception, and evidence of the impact of extraordinary circumstances, including but not limited to photographs and media articles;

(ii) The date when the PCH will again be able to submit PCHQR Program data and a justification for that proposed date;

(iii) The following contact information for the PCH’s CEO and any other designated personnel:

(A) Name.

(B) Email address.

(C) Telephone number.

(D) Physical mailing address (not a post office box); and

(iv) The signature of the PCH’s CEO or designee on the ECE request.

(f) Public reporting of PCHQR Program data. CMS makes data submitted by PCHs under the PCHQR Program available to the public on the Provider Data Catalog website (https://data.cms.gov/provider-data/). Prior to making any such data submitted by a PCH available to the public, CMS gives the PCH an opportunity to review the data via the Hospital Quality Reporting (HQR) system (https://hqr.cms.gov/hqreg/login) and announces the timeline for review on the QualityNet...
6. Section 412.64 is amended—
   a. In paragraph (e)(1)(ii), by removing the phrase “paragraph (e)(4) of this section” and adding in its place the phrase “paragraphs (e)(4) and (h)(4)(vii) of this section”;  
   b. In paragraph (e)(4) introductory text, by removing the phrase “and the imputed floor under paragraph (h)(4)” and adding in its place the phrase “and, for discharges on or after October 1, 2004, and before October 1, 2018, the imputed floor under paragraph (h)(4)”;  
   c. In paragraph (h)(4) introductory text, by removing the phrase “October 1, 2018, CMS establishes” and adding in its place the phrase “October 1, 2018, and for discharges on or after October 1, 2021, CMS establishes”;  
   d. In paragraph (h)(4)(vi) introductory text, by removing the phrase “October 1, 2018, the minimum” and adding in its place the phrase “October 1, 2018, and for discharges on or after October 1, 2021, the minimum”;  
   e. By adding paragraph (h)(4)(vii); and  
   f. By revising paragraph (b)(5) The addition and revision read as follows:

§ 412.64 Federal rates for inpatient operating costs for Federal fiscal year 2005 and subsequent fiscal years.

(1) CMS determines the national and regional case-mix index for discharges (not including discharges from units excluded from the prospective payment system under subpart B of this part) for the base year. The case-mix index value to be used in the determination of whether it meets the case-mix index criteria is that calculated by CMS from the hospital’s own billing records for Medicare discharges as processed by the fiscal intermediary and submitted to CMS. The hospital’s case-mix index for discharges (not including discharges from units excluded from the prospective payment system under subpart B of this part) for the base year are determined by multiplying the hospital’s average case-mix index per case times the number of Medicare inpatient discharges covered by Medicare Part A during the base period.

§ 412.71 Determination of base-year inpatient operating costs.

(1) Updating process. CMS updates the national and regional number of discharges using the best available data for levels of admissions or discharges or both.

(2) Source of data. In making the calculations described in paragraph (i)(1) of this section, CMS uses the best available hospital admissions or discharge data.

8. Section 412.90 is amended by revising paragraph (d) to read as follows:

§ 412.90 General rules.

(1) Kidney acquisition costs incurred by hospitals with approved kidney transplant programs as described in § 412.100. Kidney acquisition costs in the base year are determined by multiplying the hospital’s average kidney acquisition cost per kidney times the number of kidney transplants covered by Medicare Part A during the base period.

§ 412.100 Special treatment: Kidney transplant programs.

(a) Adjustments for kidney transplant programs. (1) CMS adjusts the inpatient prospective payment system (IPPS) rates for inpatient operating costs determined under subparts D and E of this part for hospitals with approved kidney transplant programs (discussed at § 482.104) to remove the net costs associated with kidney acquisition.

(2)(i) Payment for Medicare kidney acquisition costs, as set forth in subpart L of part 413 of this chapter, is made on a reasonable cost basis apart from the prospective payment rate for inpatient operating costs.

(ii) IPPS payment to the hospital is adjusted in each cost reporting period to reflect an amount necessary to compensate the hospital for reasonable costs of Medicare kidney acquisition.

(b) Costs of kidney acquisition. Kidney acquisition costs include costs incurred in the acquisition of a kidney from a living or a cadaveric donor, by the hospital or an organ procurement organization, as appropriate. These costs are listed in § 412.103.

9. Section 412.103 is amended by revising paragraphs (c)(1) introductory text, (h)(1), and (i)(1) and (2) to read as follows:

§ 412.103 Special treatment: Hospitals located in urban areas and that apply for reclassification as rural.

(1) Updating process. CMS updates the national and regional case-mix index standards using the best available data from hospitals subject to the prospective payment system for the Federal fiscal year.
Regional Office not less than 120 days prior to the end of a Federal fiscal year. The hospital’s cancellation of the classification is effective beginning with the next Federal fiscal year.

(4) Cancellation of rural reclassification on or after October 1, 2021. For all written requests submitted by hospitals on or after October 1, 2021, to cancel rural reclassifications, a hospital may cancel its rural reclassification by submitting a written request to the CMS Regional Office not less than 1 calendar year after the effective date of the rural reclassification. The hospital’s cancellation of the classification is effective beginning the Federal fiscal year that begins in the calendar year following the calendar year in which the cancellation request is submitted.

* * * * *

12. Section 412.105 is amended by adding paragraph (f)(1)(iv)(C)(j) and revising paragraphs (f)(1)(v)(F), (f)(1)(vii), and (f)(1)(x) to read as follows:

§ 412.105 Special treatment: Hospitals that incur indirect costs for graduate medical education programs.

* * * * *

(f) * * * *

(1) * * * *

(iv) * * * *

(C) * * * *

(3) Effective for portions of cost reporting periods beginning on or after July 1, 2023, a hospital may qualify to receive an increase in its otherwise applicable FTE resident cap if the criteria specified in § 413.79(p) of this subchapter are met.

* * * * *

(v) * * * *

(F)(1) Subject to the provisions of paragraph (f)(1)(x) of this section, effective for cost reporting periods beginning on or after April 1, 2000, and before October 1, 2022, full-time equivalent residents at an urban hospital in a rural track program are included in the urban hospital’s rolling average calculation described in paragraph (f)(1)(v)(B) of this section.

(2) Subject to the provisions of paragraph (f)(1)(x) of this section, for cost reporting periods beginning on or after October 1, 2022, for each rural track started, full-time equivalent residents at an urban hospital or rural hospital in a rural track program are excluded from the rolling average calculation described in paragraph (f)(1)(v)(B) of this section during the cost reporting periods prior to the beginning of the applicable hospital’s cost reporting period that coincides with or follows the start of the sixth program year of each rural track.

* * * * *

(vii)(A) If a hospital establishes a new medical residency training program, as defined in § 413.79(l) of this subchapter, the hospital’s full-time equivalent cap may be adjusted in accordance with the provisions of § 413.79(e) of this subchapter.

(B)(1) A hospital that, as of December 27, 2020, has a full-time equivalent cap of less than 1.0 FTE based on a cost reporting period beginning before October 1, 1997, that begins training residents in a new medical residency training program, as defined at § 413.79(l) of this subchapter, in a cost reporting period beginning on or after December 27, 2020, and before December 26, 2025, may receive an adjustment to its full-time equivalent cap when it trains at least 1.0 FTE in such new medical residency training program(s), to be calculated in accordance with § 413.79(e) of this subchapter.

(2) A hospital that has a full-time equivalent cap of no more than 3.0 FTEs based on a cost reporting period beginning on or after October 1, 1997, and before December 27, 2020, that begins training residents in a new medical residency training program, as defined at § 413.79(l) of this subchapter, in a cost reporting period beginning on or after December 27, 2020 and before December 26, 2025, may receive an adjustment to its full-time equivalent cap when it trains more than 3.0 FTE in such new medical residency training program(s), to be calculated in accordance with the provisions of § 413.79(e) of this subchapter.

* * * * *

(x)(A) For rural track programs started in a cost reporting period beginning before October 1, 2022, an urban hospital that establishes a new residency program (as defined in § 413.79(l) of this subchapter), or has an existing residency program, with a rural track (or an integrated rural track) may include in its FTE count residents in those rural tracks in accordance with the applicable provisions of § 413.79(k) of this subchapter.

(B) For cost reporting periods beginning on or after October 1, 2022, an urban hospital or rural hospital that establishes a new residency program (as defined in § 413.79(l) of this subchapter) with a rural track, or adds an additional rural track, may include in its FTE count residents in those rural tracks in accordance with the applicable provisions of § 413.79(k) of this subchapter.

* * * * *

13. Section 412.106 is amended by—

a. Revising paragraph (b)(4)(i) to read as follows:

§ 412.106 Special treatment: Hospitals that serve a disproportionate share of low-income patients.

* * * * *

(b) * * * *

(4) * * * *

(i) For purposes of this computation, a patient is deemed eligible for Medicaid on a given day only if the patient is eligible for inpatient hospital services under an approved State Medicaid plan that includes coverage for inpatient hospital care on that day or directly receives inpatient hospital insurance coverage on that day under a waiver authorized under section 1115(a)(2) of the Act, regardless of whether particular items or services were covered or paid under the State plan or the authorized waiver.

* * * * *

(g) * * * *

(1) * * * *

(iii) * * * *

(C) * * * *

(8) For each subsequent fiscal year, for all eligible hospitals, except Indian Health Service and Tribal hospitals and Puerto Rico hospitals that have a cost report for 2013, CMS will base its estimates of the amount of hospital uncompensated care on data on uncompensated care costs, defined as charity care costs plus non-Medicare and non-reimbursable Medicare bad debt costs from cost reports from the most recent cost reporting year for which audits have been conducted.

(9) For fiscal year 2022, for Indian Health Service and Tribal hospitals and Puerto Rico hospitals that have a cost report for 2013, CMS will base its estimates of the amount of hospital uncompensated care on utilization data for Medicaid and Medicare Supplemental Security Income (SSI) patients, as determined by CMS in accordance with paragraphs (b)(2)(i) and (b)(4) of this section, using data on Medicaid utilization from 2013 cost reports from the most recent HCRIS database extract and the most recent available year of data on Medicare SSI utilization (or, for Puerto Rico hospitals,
a proxy for Medicare SSI utilization data.

14. Section 412.113 is amended by revising paragraph (d) to read as follows:

§ 412.113 Other payments.

(d) Organ acquisition. Payment for organ acquisition costs as specified in part 413, subpart L, incurred by hospitals with approved transplant programs is made on a reasonable cost basis.

15. Section 412.116 is amended by revising paragraph (c) to read as follows:

§ 412.116 Method of payment.

(c) Special interim payments for certain costs. For capital-related costs for cost-reporting periods beginning before October 1, 1991, and the direct costs of medical education, which are not included in prospective payments but are reimbursed as specified in §§ 413.130 and 413.85 of this chapter, respectively, interim payments are made subject to final cost settlement. Interim payments for capital-related items for cost-reporting periods beginning before October 1, 1991, and the estimated cost of approved medical education programs (applicable to inpatient costs payable under Medicare Part A and for kidney acquisition costs in hospitals with approved kidney transplant programs) are determined by estimating the reimbursable amount for the year based on the previous year’s experience and on substantiated information for the current year and divided into 26 equal biweekly payments. Each payment is made 2 weeks after the end of a biweekly period of services, as described in § 413.64(h)(5) of this subchapter. The interim payments are reviewed by the intermediary at least twice during the reporting period and adjusted if necessary.

§ 412.140 [Amended]

16. Section 412.140 is amended—

(a) In paragraph (a)(1), by removing the term “QualityNet Administrator” and adding in its place the phrase “QualityNet security official”.

17. Section 412.154 is amended by revising paragraph (4) to read as follows:

§ 412.154 Payment adjustments under the Hospital Readmissions Reduction Program.

(4) CMS posts the excess readmission ratios for the applicable conditions for a fiscal year for each applicable hospital on the Hospital Compare website or successor website(s).

§ 412.160 [Amended]

18. Section 412.160 is amended in the introductory text by removing the phrase “in §§ 412.161 through 412.167” and adding in its place the phrase “in §§ 412.161 through 412.168”.

§ 412.163 [Amended]

19. Section 412.163 is amended in paragraph (d) by removing the phrase “the Hospital Compare Website” and adding in its place the phrase “the Hospital Compare website, which can be accessed via the Care Compare website at https://www.medicare.gov/care-compare/”.

§ 412.164 [Amended]

20. Section 412.164 is amended—

(a) In paragraph (c)(2), by removing “QualityNet website (QualityNet.org)” and adding in its place “QualityNet website (https://www.qualitynet.cms.gov)”;

(b) In paragraph (c)(4), by removing “QualityNet website (see https://www.qualitynet.org)” and adding in its place “QualityNet website (https://www.qualitynet.org)”. 

§ 412.165 [Amended]

21. Section 412.165 is amended—

(a) In paragraph (c)(1), by removing “QualityNet Administrator” and adding in its place the terms “QualityNet security official”;

(b) In paragraph (c)(2), by removing “QualityNet Administrator” and adding in its place the terms “QualityNet Administrator”;

(c) In paragraph (c)(2)(i), by removing the term “QualityNet” and adding in its place the terms “QualityNet website”;

(d) In paragraph (e)(2)(iii), by removing the term “QualityNet system administrator” and adding in its place the phrase “QualityNet security official”.

§ 412.167 [Amended]

22. Section 412.167 is amended in paragraph (b)(5) by removing “QualityNet System Administrator” and adding in its place “QualityNet security official”.

23. Section 412.168 is added to read as follows:

§ 412.168 Special rule for FY 2022.

(a) This section sets forth the scoring and payment methodology for the fiscal year 2022 Hospital VBP Program.

(b) CMS will calculate a measure rate for all measures selected under § 412.164(a) for fiscal year 2022 but will only apply § 412.165(a) to the measures included in the Clinical Outcomes Domain for that fiscal year, which are the following:

(1) Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Acute Myocardial Infarction (AMI) Hospitalization (MORT–30–AMI)

(2) Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Heart Failure (HF) Hospitalization (MORT–30–HF)

(3) Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Pneumonia Hospitalization (MORT–30–PN (updated cohort))

(4) Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Chronic Obstructive Pulmonary Disease (COPD) Hospitalization (MORT–30–COPD)

(5) Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate Following Coronary Artery Bypass Graft (CABG) Surgery (MORT–30–CABG)

(6) Hospital-Level Risk-Standardized Complication Rate Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA) (COMP–HIP–KNEE)

(c) CMS will calculate a domain score for the measures described in paragraph (b)(1) of this section for hospitals that report the minimum number of measures in the Clinical Outcomes Domain.

(d) CMS will not award a Total Performance Score to any hospital.

(e) The total amount available for value-based incentive payments for fiscal year 2022 is equal to the total amount of base-operating DRG payment reductions for that fiscal year, as estimated by the Secretary.

(f) CMS will award value-based incentive payment percentages (as defined in § 412.166) for all hospitals to ensure that each hospital receives an incentive payment amount equal to the amount of the reduction made to its base-operating DRG payment amounts.

24. Section 412.172 is amended by revising paragraph (4) to read as follows:

§ 412.172 Reporting of hospital specific information.

(a) This section sets forth the methodology for the fiscal year 2022 Hospital VBP Program.
§ 413.20 Financial data and reports.

28. Section 413.20 is amended by revising the first sentence of paragraph (b)(1) and revising paragraph (f)(2)(ii) to read as follows:

§ 413.278 Administrator’s review.

26. The authority citation for part 413 continues to read as follows:

Authority: 42 U.S.C. 1302, 1395d(d), 1395f(b), 1395g, 1395l(a), (i), and (n), 1395x(v), 1395hh, 1395rr, 1395tt, and 1395ww.

27. Section 413.1 is amended by revising the paragraphs (a)(2)(v) and (d)(2)(i) to read as follows:

§ 413.1 Introduction.

(a) * * *

(2) * * *

(v) Organ procurement organizations (OPOs) and histocompatibility laboratories.

* * * * *

(d) * * *

(2) * * *

(i) Payment for the following is described in §412.113 of this chapter:

(A) The hospital’s actual cost per resident day when it trains more than 3.0 FTEs in any cost reporting period beginning on or after October 1, 1997, and December 27, 2020, would receive a recalculated per resident amount when it trains at least 1.0 FTE in any cost reporting period beginning before October 1, 1997, by removing the phrase “urban hospital may include in its” and adding in its place the phrase “urban hospital or rural hospital may include in its”.

(b) * * *

(3) Net inpatient operating costs include the costs of certain preadmission services as specified in paragraph (c)(2) of this section, the costs of routine services, ancillary services, and intensive care services (as defined in §413.53(b)) incurred by a hospital in furnishing covered inpatient services to Medicare beneficiaries. Inpatient operating costs exclude capital-related costs as described in §413.130, the costs of approved medical education programs as described in §§413.77 through 413.83 and 413.85, and organ acquisition costs as specified in subpart L of this part incurred by approved transplant programs. These costs are identified and excluded from inpatient operating costs before the application of the ceiling.

* * * * *

§ 413.75 [Amended]

31. Section 413.75 is amended in paragraph (b), in the definition of “Rural track FTE limitation”, by removing the phrase “urban hospital may include in its” and adding in its place the phrase “urban hospital or rural hospital may include in its”.

32. Section 413.77 is amended by revising paragraph (e)(1)(iii) and adding paragraphs (e)(1)(iv) and (v) to read as follows:

§ 413.77 Direct GME payments:

Determination of per resident amounts.

* * * * *

(e) * * *

(1) * * *

(iii) If, under paragraph (e)(1)(iii)(A) or paragraph (B) or (e)(1)(iv)(B) of this section, there are fewer than three existing teaching hospitals with per resident amounts that can be used to calculate the weighted mean value per resident amount, for base periods beginning on or after October 1, 1997, the per resident amount equals the updated weighted mean value of per resident amounts of all hospitals located in the same census region as that term is used in subpart D of part 412 of this subchapter.

(iv) A hospital that, as of December 27, 2020, has a per resident amount based on less than 1.0 FTE in any cost reporting period beginning before October 1, 1997, would receive a recalculated per resident amount when it trains at least 1.0 FTE in such program(s) for any cost reporting period beginning before October 1, 1997, or program(s) for any cost reporting period beginning between December 27, 2020, and December 26, 2025. A hospital that, as of December 27, 2020, has a per resident amount based on no more than 3.0 FTEs in any cost reporting period beginning on or after October 1, 1997, and before December 27, 2020, would receive a recalculated per resident amount when it trains more than 3.0 FTEs in such program(s) for any cost reporting period beginning between December 27, 2020 and December 26, 2025. The recalculated per resident amount is based on the lower of—

(A) The hospital’s actual cost per resident incurred in connection with the GME program(s) based on the cost and resident data from the hospital’s base year cost reporting period, which is, for hospitals with previously less than 1.0
FTE, the cost reporting period beginning on or after December 27, 2020, and before December 25, 2025, in which it trains at least 1.0 FTE; and for hospitals with previously less than or equal to 3.0 FTEs, the cost reporting period beginning on or after December 27, 2020, and before December 27, 2025, in which it trains more than 3.0 FTEs; or (B) The updated weighted mean value of per resident amounts of all hospitals located in the same geographic wage area is calculated using all per resident amounts (including primary care and obstetrics and gynecology and nonprimary care) and FTE resident counts from the most recently settled cost reports of those teaching hospitals.

(v) Effective for a cost reporting periods beginning on or after December 27, 2020, a per resident amount would be established if a hospital trains less than 1.0 FTE resident and this training results from the hospital’s participation in a Medicare GME affiliation agreement under §413.79(f). Effective for a cost reporting period beginning on or after December 27, 2020, a per resident amount would only be established when the hospital trains at least 1.0 FTE and does not participate in a Medicare GME affiliation agreement under §413.79(f) for that training.

* * * * *

§ 413.78 Direct GME payments: Determination of the total number of FTE residents.

(b)(1) No individual resident may be counted as more than one FTE based on the total time spent in training at all sites. A hospital cannot claim the time spent by residents training at another hospital, except as provided in paragraph (i) of this section. Except as provided in paragraphs (c), (d), and (e) of this section, if a resident spends time in more than one hospital or in a nonprovider setting, the resident counts as partial FTE based on the proportion of time worked at the hospital to the total time worked. A part-time resident counts as a partial FTE based on the proportion of allowable time worked compared to the total time necessary to fill a full-time internship or residency slot.

(2) Effective for a cost reporting period beginning on or after December 27, 2020, a hospital must report FTE residents on its Medicare cost report for a cost reporting period if it does not participate in a Medicare GME affiliation agreement (as defined under §413.75(b), and the hospital trains at least 1.0 FTE in an approved program or programs, or, if the hospital trains less than 1.0 FTE residents in an approved program or programs and this training results from the hospital’s participation in a Medicare GME affiliation agreement (as defined under §413.75(b)).

* * * * *

§ 413.79 Direct GME payments: Determination of the weighted number of FTE residents.

(a) * * * * *

(c) * * * * *

(2) Determination of the FTE resident cap. Subject to the provisions of paragraphs (c)(3) through (6) and (m) through (p) of this section and §413.81, for purposes of determining direct GME payment—

(7) Determination of an increase in the otherwise applicable resident cap under section 126 of Public Law 116–260. For portions of cost reporting periods beginning on or after July 1, 2023, a hospital may receive an increase in its otherwise applicable FTE resident cap (as determined by CMS) if the hospital meets the requirements and qualifying criteria under section 1886(h)(9) of the Act and if the hospital submits an application to CMS within the timeframe specified by CMS.

(d) * * *

(7)(f) Subject to the provisions under paragraph (k) of this section, effective for cost reporting periods beginning on or after April 1, 2020 and before cost reporting periods beginning on or after October 1, 2022, FTE residents in a rural track program at an urban hospital are included in the urban hospital’s rolling average calculation described in this paragraph (d).

(7) Subject to the provisions under paragraph (k) of this section, effective for rural track programs started in a cost reporting period beginning on or after October 1, 2022, FTE residents in a rural track program at an urban hospital or rural hospital are excluded from rolling average calculation described in this paragraph (d) during the cost reporting periods prior to the beginning of the applicable hospital’s cost reporting period that coincides with or follows the start of the sixth program year of each rural track.

(e) * * * *

(1) * * *

(vi) In the case of a hospital that, as of December 27, 2020, has a FTE cap based on the training of less than 1.0 FTE in any cost reporting period beginning before October 1, 1997; or no more than 3.0 FTEs based on a cost reporting period beginning on or after October 1, 1997, and before December 27, 2020, if such a hospital begins training residents in a new approved program (as defined under §413.79(l)) in a program year beginning on or after December 27, 2020 and before December 26, 2025, such hospital with a previous FTE cap of less than 1.0 FTE may receive a recalculated FTE cap when it begins to train at least 1.0 FTE in such new program(s); and such hospital with a previous FTE cap of no more than 3.0 FTEs may receive a recalculated FTE cap when it begins to train more than 3.0 FTEs in such new program(s). The recalculated FTE cap is equal to the sum of the products of three factors (limited to the number of accredited slots for each program).

(A) The highest total number of FTE residents trained in any program year during the fifth year of the first new program’s existence started in a program year beginning on or after December 27, 2020 and before December 26, 2025, at all of the hospitals to which the residents in the program rotate;

(B) The number of years in which residents are expected to complete the program, based on the minimum accredited length for each type of program.

(C) The ratio of the number of FTE residents in the new program that trained at the hospital over the entire 5-year period to the total number of FTE residents that trained at all hospitals over the entire 5-year period.

* * * * *

(6) Effective for a cost reporting period beginning on or after December
section, training in the rural track at the urban hospital. For rural track programs started on or after October 1, 2012, and before October 1, 2022, prior to the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average at paragraph (d)(7) of this section, training in the rural track at the urban hospital. For rural track programs started on or after October 1, 2012, before the start of the urban or rural hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each hospital will be the actual number of FTE residents training in the rural track at the urban or rural hospital.

(ii) For rural track programs started prior to October 1, 2012, beginning with the fourth year of the rural track’s existence, the rural track FTE limitation is equal to the product of the highest number of residents, in any program year, who during the third year of the rural track’s existence are training in the rural track at the urban hospital and are designated at the beginning of their training to be rotated to the rural hospital(s) for at least two-thirds of the duration of the program for cost reporting periods beginning on or after April 1, 2000, and before October 1, 2003, or for more than one-half of the duration of the program for cost reporting periods beginning on or after October 1, 2003, and the number of years those residents are training at the urban hospital. For rural track programs started on or after October 1, 2012 and before October 1, 2022, beginning with the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average specified in paragraph (d)(7) of this section, training in the rural track at the urban hospital and the rural nonprovider site(s). For rural track programs started on or after October 1, 2012, and before October 1, 2022, prior to the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each hospital will be the actual number of FTE residents training in the rural track at the hospital and the rural nonprovider site(s).

(3) For rural track programs started prior to October 1, 2012, if an urban hospital rotates residents to a separately accredited rural track program at a rural hospital(s) for less than two-thirds of the duration of the program for cost reporting periods beginning on or after April 1, 2000, and before October 1, 2003, or for one-half or less than one-half of the duration of the program for cost reporting periods beginning on or after October 1, 2003, the rural hospital may not include those residents in its FTE count, subject to the requirements under §413.78(d) through (g). For cost reporting periods beginning on or after October 1, 2022, if an urban or rural hospital rotates residents to a rural track program at a rural nonprovider site for more than one-half of the duration of the program, the urban or rural hospital may include those residents in its FTE count, subject to which hospital meets the requirements under §413.78(g), not to exceed their rural track FTE limitations. The rural track FTE limitation is determined as follows:

(i) For rural track programs started prior to October 1, 2012, for the first 3 years of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average at paragraph (d)(7) of this section, training in the rural track at the urban hospital. For rural track programs started on or after October 1, 2012, and before October 1, 2022, prior to the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average at paragraph (d)(7) of this section, training in the rural track at the urban hospital. For rural track programs started on or after October 1, 2012, before the start of the urban or rural hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each hospital will be the actual number of FTE residents training in the rural track at the urban or rural hospital.

(ii) For rural track programs started prior to October 1, 2012, beginning with the fourth year of the rural track’s existence, the rural track FTE limitation is equal to the product of the highest number of residents, in any program year, who during the third year of the rural track’s existence are training in the rural track at the urban hospital and are designated at the beginning of their training to be rotated to the rural hospital(s) for at least two-thirds of the duration of the program for cost reporting periods beginning on or after April 1, 2000, and before October 1, 2003, or for more than one-half of the duration of the program for cost reporting periods beginning on or after October 1, 2003, and the number of years those residents are training at the urban hospital. For rural track programs started on or after October 1, 2012 and before October 1, 2022, beginning with the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average specified in paragraph (d)(7) of this section, training in the rural track at the urban hospital and the rural nonprovider site(s). For rural track programs started on or after October 1, 2012, and before October 1, 2022, prior to the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each hospital will be the actual number of FTE residents training in the rural track at the hospital and the rural nonprovider site(s).

(3) For rural track programs started prior to October 1, 2012, if an urban hospital rotates residents to a separately accredited rural track program at a rural hospital(s) for less than two-thirds of the duration of the program for cost reporting periods beginning on or after April 1, 2000, and before October 1, 2003, or for one-half or less than one-half of the duration of the program for cost reporting periods beginning on or after October 1, 2003, the rural hospital may not include those residents in its FTE count, subject to the requirements under §413.78(d) through (g). For cost reporting periods beginning on or after October 1, 2022, if an urban or rural hospital rotates residents to a rural track program at a rural nonprovider site for more than one-half of the duration of the program, the urban or rural hospital may include those residents in its FTE count, subject to which hospital meets the requirements under §413.78(g), not to exceed their rural track FTE limitations. The rural track FTE limitation is determined as follows:

(i) For rural track programs started prior to October 1, 2012, for the first 3 years of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average at paragraph (d)(7) of this section, training in the rural track at the urban hospital. For rural track programs started on or after October 1, 2012, and before October 1, 2022, prior to the start of the urban hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each urban hospital will be the actual number of FTE residents, subject to the rolling average at paragraph (d)(7) of this section, training in the rural track at the urban hospital. For rural track programs started on or after October 1, 2012, before the start of the urban or rural hospital’s cost reporting period that coincides with or follows the start of the sixth program year of the rural track’s existence, the rural track FTE limitation for each hospital will be the actual number of FTE residents training in the rural track at the urban or rural hospital.
paragraph (e)(3) of this section, or the rural hospital's FTE count does not exceed that hospital's FTE cap), nor may the urban hospital include those residents when calculating its rural track FTE limitation. For rural track programs started on or after October 1, 2012, if an urban hospital rotates residents in the rural track program to a rural hospital(s) for one-half or less than one-half of the duration of the program, the rural hospital may not include those residents in its FTE count (unless the rural track is a new program under paragraph (e)(3) of this section, or the rural hospital's FTE count does not exceed that hospital's FTE cap), nor may the urban hospital include those residents when calculating its rural track FTE limitation. For rural track programs started in a cost reporting period beginning on or after October 1, 2022, if less than or equal to 50 percent of the duration of the training program occurs in a rural area, neither the urban or rural hospital may receive a rural track FTE limitation.

<table>
<thead>
<tr>
<th>Subpart H—Payment for End-Stage Renal Disease (ESRD) Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 413.200 through 413.203 [Removed and Reserved]</td>
</tr>
<tr>
<td>§ 35. The subpart heading for Subpart H is revised to read as set forth above.</td>
</tr>
</tbody>
</table>

§ 413.200 through 413.203 [Removed and Reserved]

§ 35. The subpart heading for Subpart H is revised to read as set forth above.

(4) * * *

(C) For rural track programs started in a cost reporting period beginning on or after October 1, 2022, if less than or equal to 50 percent of the duration of the training program occurs in a rural area, neither the urban or rural hospital may receive a rural track FTE limitation. (C) For rural track programs started in a cost reporting period beginning on or after October 1, 2022, if less than or equal to 50 percent of the duration of the training program occurs in a rural area, neither the urban or rural hospital may receive a rural track FTE limitation.

(iv) Effective for cost reporting periods beginning on or after October 1, 2022, in order for an urban or rural hospital to receive a rural track FTE limitation, greater than 50 percent of the rural track program must occur in a rural area.

(p) Determination of an increase in the otherwise applicable resident cap under section 126 of the Consolidated Appropriations Act (Pub. L. 116–260). For portions of cost reporting periods beginning on or after July 1, 2023, a hospital may receive an increase in its otherwise applicable FTE resident cap (as determined by CMS) if the hospital meets the requirements and qualifying criteria under section 1886(h)(9) of the Act and if the hospital submits an application to CMS within the timeframe specified by CMS.

Subpart H—Payment for End-Stage Renal Disease (ESRD) Services

• 35. The subpart heading for Subpart H is revised to read as set forth above.

§ 413.200 through 413.203 [Removed and Reserved]

• 36. Sections 413.200 through 413.203 are removed and reserved.

• 37. Subpart L is added to read as follows:

Subpart L—Payment of Organ Acquisition Costs to Transplant Hospitals and Organ Procurement Organizations

Sec.

413.400 Definitions.

413.402 Organ acquisition costs.

413.404 Standard acquisition charge.

413.406 Acquisition of pancreata for islet cell transplant.

413.408 Counting of organs for transplant hospitals/hospital-based organ procurement organizations and calculation of Medicare's share of organ acquisition costs.

413.410 Counting of kidneys for independent organ procurement organizations and calculation of Medicare's share of kidney acquisition costs.

413.412 Intent to transplant, and counting on bloc, research, and discarded organs.

413.414 Medicare secondary payer and organ acquisition costs.

413.416 Organ acquisition charges for kidney-paired exchanges.

413.418 Donor community hospitals’ charges to organ procurement organizations for organ acquisition costs.

413.420 Payment to independent organ procurement organizations and histocompatibility laboratories for kidney acquisition costs.

Subpart L—Payment of Organ Acquisition Costs to Transplant Hospitals and Organ Procurement Organizations

§ 413.400 Definitions.

As used in this subpart: Histocompatibility laboratory means a laboratory meeting the requirements set forth in § 493.1227 of this chapter and providing the services for the acquisition of kidneys or other organs for transplantation.

Hospital-based organ procurement organization (HOPO) means an organ procurement organization that is considered a department of the transplant hospital and reports organ acquisition costs it incurs on the transplant hospital’s Medicare cost report.

Independent organ procurement organization (IOPO) means an organ procurement organization that files a Medicare cost report separate from a hospital and meets all of the following:

(1) Is not subject to the control of a hospital with respect to the hiring, firing, training, and paying of employees.

(2) Is not considered as a department of a hospital for insurance purposes (including malpractice insurance, general liability insurance, worker’s compensation insurance, and employee retirement insurance).

(3) Reports organ acquisition costs it incurs on the IOPO Medicare cost report.

Organ, for organ acquisition payment purposes, means:

(1) A human kidney, liver, heart, lung, pancreas, or intestine (or multivisceral organs when transplanted at the same time as an intestine).

(2) Pancreas procured on or after October 1, 2004 for the purpose of acquiring pancreatic islet cells for transplantation into individuals who are participating in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial.

Organ procurement organization (OPO) means an organization defined in § 486.302 of this chapter. OPOs can be independent or hospital based.

Standard acquisition charge (SAC) means a charge as defined in § 413.404 of this chapter.

Transplant hospital means a hospital that furnishes organ transplants and other medical and surgical specialty services required for the care of transplant patients.

Transplant hospital/IOPO (TH/IOPO) refers to a transplant hospital, or a transplant hospital that operates a HOPO (as previously defined in this section) and performs organ procurement activities as one entity reported on the transplant hospital’s Medicare cost report.

Transplant program means an organ-specific transplant program within a transplant hospital (as defined in this section).

§ 413.402 Organ acquisition costs.

(a) Costs related to organ acquisition. Costs recognized in paragraph (b) of this section are costs incurred in the acquisition of organs from a living donor or a cadaveric donor, by the hospital or an organ procurement organization, as appropriate.
§ 413.404 Standard acquisition charge.

(a) General. (1) Procuring an organ is not a covered service when performed independent of a Medicare covered transplant. However, the reasonable costs to procure an organ are reimbursable when billed in connection with a Medicare covered transplant.

(2) The SAC represents the average of the total actual costs associated with procuring either cadaveric donor organs or living donor organs, by organ type.

(3) When a TH/HOPO or IOPO provides an organ to another transplant hospital or OPO, it bills its SAC to the transplant hospital, TH/HOPO or IOPO receiving the organ. (b) THs/HOPOs SACs. (1) A TH/HOPO must develop a SAC for each organ type (for example heart, liver, or lung).

(2) When a TH/HOPO provides an organ to another transplant hospital or OPO, it must bill the receiving transplant hospital or OPO its SAC by organ type, or the hospital’s standard departmental charges that are reduced to cost.

(3) A transplant hospital must establish SACs for living donor organs. A TH/HOPO must establish SACs for cadaveric donor organs.

(i) Living donor SAC for transplant hospitals.—(A) Definition. The living donor SAC is an average cost that a transplant hospital incurs to procure an organ from a living donor.

(B) Establishment of living donor SAC. A transplant hospital must establish a living donor SAC (living donor organ). A TH/HOPO must establish SACs (living organ) before the transplant hospital bills its first living donor transplant to Medicare.

(ii) Calculating the living donor SAC—(1) Initial living donor SAC. A transplant hospital calculates its initial living SAC for each living organ type as follows:

(i) By estimating the reasonable and necessary costs they expect to incur for services furnished to living donors, and the costs of physicians’ services.

(ii) Dividing the estimated amount described in paragraph (b)(3)(i)(B)(1)(i) of this section by the projected number of usable living donor organs to be procured by the TH/HOPO within the transplant hospital’s cost reporting period.

(2) Subsequent living donor SAC. A TH/HOPO calculates its subsequent cadaveric donor SAC for each cadaveric organ type as follows:

(i) By using the transplant hospital’s actual organ acquisition costs for the cadaveric donor organ type from the prior year’s Medicare cost report, adjusted for any changes in the current year.

(ii) Dividing the costs in paragraph (b)(3)(ii)(B)(2)(i) of this section by the actual number of usable cadaveric organs procured by the TH/HOPO during that prior cost reporting period.

(C) Costs to develop the cadaveric donor SAC. Costs that may be used to develop the cadaveric donor SAC include, but are not limited to the following:

(1) Costs of organ acquisition costs for other transplant hospital or OPOs.

(2) Costs of transportation of the excised organs.

(iii) Cadaveric donor SAC for THs/HOPOs—(A) Definition. The cadaveric donor SAC is an average cost that a TH/HOPO incurs to procure a cadaveric donor organ.

(B) Calculating the cadaveric SAC—

(1) Initial cadaveric donor SAC. A TH/HOPO calculates its initial cadaveric SAC for each cadaveric organ type as follows:

(i) By estimating the reasonable and necessary costs they expect to incur to procure cadaveric organs, combined with the expected costs of acquiring cadaveric organs from OPOs or other transplant hospitals.

(ii) Dividing the estimated amount described in paragraph (b)(3)(ii)(B)(1)(i) of this section by the projected number of usable cadaveric organs to be procured by the TH/HOPO within the transplant hospital’s cost reporting period.

(2) Subsequent cadaveric donor SAC. A TH/HOPO calculates its subsequent cadaveric donor SAC for each cadaveric organ type as follows:

(i) By using the transplant hospital’s actual organ acquisition costs for the cadaveric donor organ type from the prior year’s Medicare cost report, adjusted for any changes in the current year.

(ii) Dividing the costs in paragraph (b)(3)(ii)(B)(2)(i) of this section by the actual number of usable cadaveric organs procured by the TH/HOPO during that prior cost reporting period.

(C) Costs to develop the cadaveric donor SAC. Costs that may be used to develop the cadaveric donor SAC include, but are not limited to the following:

(1) Costs of organ acquisition from other transplant hospitals or OPOs.

(2) Costs of transportation of the excised organs.
Surgeons’ fees for excising cadaveric organs (currently limited to $1,250 for kidneys).

(4) Costs of tissue typing services, including those furnished by independent laboratories.

(5) Preservation and perfusion costs.

(6) General routine and special care service costs.

(7) Operating room and other inpatient ancillary service costs.

(c) Independent OPO SACs—(1) Non-renal SAC. An IOPO establishes non-renal SACs based on its costs of procuring non-renal organs for each organ type, by—

(i) Estimating the reasonable and necessary costs it expects to incur for services furnished to procure cadaveric donor non-renal organs during the IOPO’s cost reporting period; and

(ii) Dividing the amount estimated in paragraph (c)(1)(i) of this section by the projected number of cadaveric donor non-renal organs the IOPO expects to procure within its cost reporting period.

(2) Kidney SAC. (i) An IOPO’s Medicare contractor establishes the kidney SAC based on an estimate of the reasonable and necessary costs the IOPO expects to incur to procure cadaveric kidneys during the IOPO’s cost reporting period, divided by the projected number of usable cadaveric kidneys the IOPO expects to procure.

(ii) The Medicare contractor develops the IOPO’s initial kidney SAC based on the IOPO’s budget information.

(iii) The kidney SAC for subsequent years is computed using the IOPO’s costs related to kidney acquisition that were incurred in the prior cost reporting period and dividing those costs by the number of usable cadaveric kidneys procured during that cost reporting period. These SACs are the basis for the interim payments by the transplant hospital to the IOPO, as set forth in §413.420(d).

(iv) The IOPO’s Medicare contractor may adjust the kidney SAC during the year, if necessary, for cost changes.

(v) The IOPO cannot use or change its kidney SAC without the contractor’s approval.

(3) Billing SACs for organs generally. The IOPO uses its own organ SAC and not the SAC it paid to another IOPO when billing a transplant hospital receiving the organ. When an IOPO receives an organ from another IOPO, the receiving IOPO is responsible for paying the procuring IOPO’s SAC.

§413.406 Acquisition of pancreata for islet cell transplant.

(a) Medicare only covers and pays for reasonable costs of acquisition of pancreata for islet cell transplants into Medicare beneficiaries participating in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial of islet cell transplantation.

(b) Pancreata procured for covered islet cell transplants must be assigned a full standard acquisition charge and be treated as solid organs for procurement purposes.

§413.408 Counting of organs for transplant hospitals/hospital-based organ procurement organizations and calculation of Medicare’s share of organ acquisition costs.

(a) Counting and reporting of Medicare usable organs. THs/HOPOs, must accurately count and report the Medicare usable organs and total usable organs on their Medicare hospital cost reports to ensure that costs to acquire Medicare usable organs are accurately allocated to Medicare.

(b) Medicare usable organs. For cost reporting periods beginning on or after October 1, 2021, for THs/HOPOs, Medicare usable organs include only the following:

(1) Organs transplanted into Medicare beneficiaries (including kidneys for Medicare Advantage beneficiaries for dates of service on or after January 1, 2021).

(2) Organs for which Medicare has a secondary payer liability for the organ transplant.

(3) Organs procured for the purpose of acquiring pancreatic islet cells acquired for transplantation for Medicare beneficiaries participating in a National Institute of Diabetes and Digestive and Kidney Diseases clinical trial.

(c) Total usable organs. For cost reporting periods beginning on or after October 1, 2021, for THs/HOPOs, total usable organs include all of the following:

(1) Medicare usable organs.

(2) Organs excised with the intention to be used for research.

(3) Organs excised and either transplanted or furnished to other transplant hospitals or OPOs.

(4) Organs obtained from another OPO or transplant hospital and either transplanted or furnished to other transplant hospitals or OPOs.

(5) Organs sent to veterans’ hospitals or organs sent outside the United States.

(6) Organs transplanted into non-Medicare beneficiaries.

(7) Organs for which the transplant was totally or partially paid by primary insurance other than Medicare.

(8) Organs for which the transplant was covered by a Medicare Advantage plan for dates of service prior to January 1, 2021.

§413.410 Counting of kidneys for independent organ procurement organizations and calculation of Medicare’s share of kidney acquisition costs.

(a) Counting and reporting of the number of usable kidneys. IOPOs must accurately count and report Medicare usable kidneys and total usable kidneys on their Medicare OPO cost reports to ensure that costs to acquire Medicare usable kidneys are accurately allocated to Medicare.

(b) Medicare usable kidneys. For cost reporting periods beginning on or after October 1, 2021, for IOPOs, Medicare usable kidneys include only kidneys sent to transplant hospitals, OPOs and other IOPOs that are transplanted into Medicare beneficiaries.

(c) Total usable kidneys. For cost reporting periods beginning on or after October 1, 2021, for IOPOs, total usable kidneys include all of the following:

(1) Medicare usable kidneys.

(2) Kidneys procured with the intention to be used for research.

(3) Kidneys procured and furnished to other transplant hospitals or OPOs.
(4) Kidneys procured from another OPO or transplant hospital and either transplanted or furnished to other transplant hospitals or OPOs.

(5) Kidneys sent to veterans’ hospitals or organs sent outside the United States.

(6) Kidneys for which the transplant was covered by a Medicare Advantage plan for dates of service prior to January 1, 2021.

(7) Kidneys sent to United States MRTCs with or without a contractor-approved reciprocal sharing agreement with the IOPO in effect prior to March 3, 1988.

(4) IOPO’s total costs exclude procurement costs of kidneys sent to foreign transplant centers and organs transplanted into non-Medicare beneficiaries. (1) An IOPO’s total costs for all kidneys is reduced by the costs associated with procuring kidneys that are sent to foreign transplant centers or transplanted in patients other than Medicare beneficiaries.

(2) IOPOs must separate costs for procuring kidneys that are sent to foreign transplant centers and kidneys transplanted in patients other than Medicare beneficiaries from Medicare allowable costs prior to final settlement by the Medicare contractors. The separation of cost is achieved using the Medicare ratio set forth in § 413.410(e).

(e) Calculation of Medicare’s share of kidney acquisition costs. For cost reporting periods beginning on or after October 1, 2021, Medicare’s share of kidney acquisition costs for an IOPO is calculated by multiplying the total allowable kidney acquisition costs by the ratio of Medicare usable kidneys, as specified in § 413.410(b), to total kidneys, as specified in § 413.410(c).

§ 413.412 Intent to transplant, and counting en bloc, research, and discarded organs.

(a) Principle of intent to transplant.

(1) For organ acquisition payment purposes, an organ is intended for transplant when the OPO or transplant hospital designates it for transplant prior to the time the donor enters the hospital’s operating room for surgical excision/recovery of the organ(s).

(2) OPOs and transplant hospitals must identify the costs associated with the recovered and unrecovered organs and apportion those costs to the appropriate cost centers by organ type.

(b) Counting en bloc organs. En bloc organs can be en bloc lungs or en bloc kidneys. For Medicare cost allocation purposes, OPOs and transplant hospitals count—

(1) En bloc lungs or en bloc kidneys procured en bloc but separated and transplanted into two different recipients as two total usable organs. For each organ transplanted into a Medicare beneficiary, count each as one Medicare usable organ in Medicare’s share of organ acquisition costs (except pancreata in accordance with § 413.408(b)(3)).

(c) Counting of research organs. For Medicare cost allocation purposes, organs used for research are not counted as Medicare usable organs in Medicare’s share of organ acquisition costs (except pancreata in accordance with § 413.408(b)(3)).

(1) OPOs and transplant hospitals—

(i) Do not count organs designated for research activities prior to the time the donor entered the hospital’s operating room for surgical removal of the organs as Medicare usable organs; and

(ii) Count organs designated for research activities prior to the time the donor entered the hospital’s operating room for surgical removal of the organs as total usable organs.

(2) Do not count organs designated for transplant prior to the time the donor entered the hospital’s operating room for surgical removal of the organs but subsequently determined to be unusable and donated to research, as Medicare usable organs or total usable organs.

(d) Counting of discarded/unusable organs. An organ is not counted as a Medicare usable organ or a total usable organ if the excising surgeon determines, upon initial inspection or after removal of the organ, that the organ is not viable and not medically suitable for transplant and the organ is determined to be unusable and discarded. This includes organs that are determined to be unusable and subsequently donated to research in accordance with paragraph (c)(2) of this section.

§ 413.414 Medicare secondary payer and organ acquisition costs.

(a) General principle. If a Medicare beneficiary has a primary health insurer other than Medicare and that primary health insurer has primary liability for the transplant and organ acquisition costs, the Medicare Program may share a liability for organ acquisition costs as a secondary payer in certain instances. To determine whether Medicare has liability as a secondary payer, it is necessary to review the transplant hospital’s agreement with the primary insurer.

(b) Medicare has no secondary payer liability for organ acquisition costs. If the primary insurer’s agreement requires the transplant hospital to accept the primary insurer’s payment as payment in full for the transplant and the associated organ acquisition costs, Medicare has zero liability as a secondary payer with no payment obligation for the transplantation costs or the organ acquisition costs, and the organ at issue is not a Medicare usable organ.

(c) Medicare may have secondary payer liability for organ acquisition costs. When the primary insurer’s agreement does not require the transplant hospital to accept the payment from the primary insurer as payment in full, and the payment the transplant hospital receives from the primary insurer for the transplant and organ acquisition costs is insufficient to cover the entire cost, Medicare may have a secondary payer liability for the organ acquisition costs.

(1) To determine whether Medicare has a secondary payer liability for the organ acquisition costs, it is necessary for the transplant hospital to submit a bill to its Medicare contractor and to compare the total cost of the transplant, including the transplant DRG amount and the organ acquisition costs, to the payment received from the primary payer.

(2) If the payment from the primary payer is greater than the cost of the transplant DRG and the organ acquisition costs, there is no Medicare liability and the transplant hospital must not count the organ as a Medicare usable organ.

(3) If the payment from the primary payer is less than the transplant DRG and the organ acquisition costs, there is a Medicare secondary payer liability and all of the following must occur:

(i) The transplant hospital must prorate the payment from the primary payer between the transplant DRG payment and the organ acquisition payment.

(ii) The transplant hospital counts the organ as a Medicare usable organ.

(iii) The portion of the payment applicable to organ acquisition is used on the cost report to reduce the Medicare organ acquisition costs.

§ 413.416 Organ acquisition charges for kidney-paired exchanges.

(a) Initial living donor evaluations. When a recipient and donor elect to participate in a kidney paired exchange, the costs of the initial living donor evaluations are incurred by the originally intended recipient’s...
§ 413.418 Donor community hospitals’ charges to organ procurement organizations for organ acquisition costs.

(a) General. A donor community hospital (a Medicare-certified non-transplant hospital) incurs organ acquisition costs for donor organ procurement services, authorized by the OPO following declaration of death and consent to donate.

(b) Donor community hospitals. For cost reporting periods beginning on or after October 1, 2021, when a donor community hospital incurs costs for services furnished to a cadaveric donor, as authorized by the OPO, the donor community hospital must bill the OPO its customary charges that are reduced to cost by applying its most recently available hospital specific cost-to-charge ratio for the period in which the service was rendered.

§ 413.420 Payment to independent organ procurement organizations and histocompatibility laboratories for kidney acquisition costs.

(a) Principle. (1) Covered services furnished after September 30, 1978, by OPOs and histocompatibility laboratories in connection with kidney acquisition and transplantation are reimbursed under the principles for determining reasonable cost contained in this part.

(2) Services furnished by OPOs and histocompatibility laboratories, that have an agreement with the Secretary in accordance with paragraph (c) of this section, are paid directly by the transplant hospital using a kidney SAC (for an IOPO) or contractor-established rates (for a histocompatibility laboratory). (The reasonable costs of services furnished by HOPOs or laboratories are reimbursed in accordance with the principles contained in §§ 413.60 and 413.64.)

(b) Definitions. Definitions relevant to this section can be found in § 413.400 of this subpart.

(c) Agreements with IOPOs and laboratories. (1) Any IOPO or histocompatibility laboratory that wishes to have the cost of its pre-transplant services reimbursed under the Medicare program must file an agreement with CMS under which the IOPO or laboratory agrees to do all of the following:

(i) To file a cost report in accordance with § 413.24(f) within 5 months following the close of the period covered by the report.

(ii) To permit CMS to designate a contractor to determine the interim reimbursement rate payable by the transplant hospitals for services provided by the IOPO or laboratory and to make a determination of reasonable cost based upon the cost report filed by the IOPO or laboratory.

(iii) To provide such budget or cost projection information as may be required to establish an initial interim reimbursement rate.

(iv) To pay to CMS amounts that have been paid by CMS to transplant hospitals and that are determined to be in excess of the reasonable cost of the services provided by the IOPO or laboratory.

(v) Not to charge any individual for items or services for which that individual is entitled to have payment made under section 1861 of the Act.

(2) The initial cost report due from an IOPO or laboratory is for its first fiscal year during any portion of which it had an agreement with the Secretary under paragraphs (c)(1) and (2) of this section. The initial cost report covers only the period covered by the agreement.

(d) Interim reimbursement. (1) Transplant hospitals with approved kidney transplant programs pay the IOPO or histocompatibility laboratory for their pre-transplantation services on the basis of an interim rate established by the contractor for that IOPO or laboratory.

(2) The interim rate is based on a kidney SAC or contractor established rates, associated with procuring a kidney for transplantation, incurred by an IOPO or laboratory respectively, during its previous fiscal year. If there is not adequate cost data to determine the initial interim rate, the Medicare contractor determines it according to the IOPO’s or laboratory’s estimate of its projected costs for the fiscal year.

(3) Payments made by transplant hospitals on the basis of interim rates are reconciled directly with the IOPO or laboratory after the close of its fiscal year, in accordance with paragraph (e) of this section.

(4) Information on the interim rate for all IOPOs and histocompatibility laboratories must be disseminated to all transplant hospitals and contractors.

(e) Retroactive adjustment—(1) Cost reports. Information provided in cost reports by IOPOs and histocompatibility laboratories must meet the requirements for cost data and cost finding specified in § 413.24. These cost reports must provide the following:

(i) A complete accounting of the cost incurred by the IOPO or laboratory in providing covered services, the total number of Medicare beneficiaries who received those services;

(ii) Any other data necessary to enable the contractor to make a determination of the reasonable cost of covered services;
services provided to Medicare beneficiaries.

(2) Audit and adjustment. A cost report submitted by an IOPO or histocompatibility laboratory is reviewed by the contractor and a new interim reimbursement rate for kidney acquisition costs for the subsequent fiscal year is established based upon this review.

(i) A retroactive adjustment in the amount paid under the interim rate is made in accordance with §413.64(f).

(ii) If the determination of reasonable cost reveals an overpayment or underpayment resulting from the interim reimbursement rate paid to transplant hospitals, a lump sum adjustment is made directly between that contractor and the IOPO or laboratory.

(f) Payment requirements. For services furnished on or after April 1, 1988, no payment may be made for services furnished by an IOPO that does not meet the requirements of part 486, subpart G, of this chapter.

(g) Appeals. If the amount in controversy is $1,000 or more, any IOPO or histocompatibility laboratory that disagrees with a contractor’s cost determination under this section is entitled to a contractor hearing, in accordance with the procedures set forth in §§405.1811 through 405.1833 of this chapter.

PART 425—MEDICARE SHARED SAVINGS PROGRAM

38. The authority for Part 425 continues to read as follows:

Authority: 42 U.S.C. 1302, 1306, 1395hh, and 1395jjj.

39. Section 425.600 is amended by—


b. Adding new paragraph (a)(4)(i)(B)(2)(vi); and


The addition reads as follows:

§425.600 Selection of risk model.

(a) * * *

(4) * * *

(i) * * *

(B) * * *

(2) * * *

(iv) Exception for ACOs participating in the BASIC track’s glide path that elect to maintain their participation level for performance year 2022. Prior to the automatic advancement for performance year 2022, an ACO that is participating in the BASIC track’s glide path for performance year 2021 may elect to remain in the same level of the BASIC track’s glide path in which it participated during the 2021 performance year, for performance year 2022. For performance year 2023, the ACO is automatically advanced to the level of the BASIC track’s glide path to which the ACO would have automatically advanced absent the election to maintain its participation level for performance year 2022 and, if applicable, the election to maintain its participation level for performance year 2021 under paragraph (a)(4)(i)(B)(2)(iii) of this section, unless the ACO elects to transition to a higher level of risk and potential reward within the BASIC track’s glide path as provided in §425.226(a)(2)(i). A voluntary election by an ACO under this paragraph must be made in the form and manner and by a deadline established by CMS.

* * * * *

PART 455—PROGRAM INTEGRITY: MEDICAID

40. The authority citation for Part 455 continues to read as follows:

Authority: 42 U.S.C. 1302.

41. Section 455.410 is amended by adding paragraph (d) to read as follows:

§455.410 Enrollment and screening of providers.

(d) The State Medicaid agency must allow enrollment of all Medicare-enrolled providers and suppliers for purposes of processing claims to determine Medicare cost-sharing (as defined in section 1905(p)(3) of the Act) if the providers or suppliers meet all Federal Medicaid enrollment requirements, including, but not limited to, all applicable provisions of 42 CFR part 455, subparts B and E. This paragraph (d) applies even if the Medicare-enrolled provider or supplier is of a type not recognized by the State Medicaid Agency.

PART 495—STANDARDS FOR THE ELECTRONIC HEALTH RECORD TECHNOLOGY INCENTIVE PROGRAM

42. The authority citation for part 495 continues to read as follows:

Authority: 42 U.S.C. 1302 and 1395hh.

43. Section 495.4 is amended by—

a. Adding paragraphs (2)(vii) and (viii) and (3)(vii) and (viii) to the definition of “EHR reporting period for a payment adjustment year”;

b. Revising the introductory text and paragraph (1) of the definition of “Meaningful EHR user”.

The additions and revisions read as follows:

§495.4 Definitions.

* * * * *

EHR reporting period for a payment adjustment year.

(2) * * *

(vii) The following are applicable for 2023:

(A) If an eligible hospital has not successfully demonstrated it is a meaningful EHR user in a prior year, the EHR reporting period is any continuous 90-day period within CY 2023 and applies for the FY 2024 and 2025 payment adjustment years. For the FY 2024 payment adjustment year, the EHR reporting period must end before and the eligible hospital must successfully register for and attest to meaningful use no later than October 1, 2023.

(B) If in a prior year an eligible hospital has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 90-day period within CY 2023 and applies for the FY 2025 payment adjustment year.

(viii) The following are applicable for 2024:

(A) If an eligible hospital has not successfully demonstrated it is a meaningful EHR user in a prior year, the EHR reporting period is any continuous 180-day period within CY 2024 and applies for the FY 2025 and 2026 payment adjustment years. For the FY 2025 payment adjustment year, the EHR reporting period must end before and the eligible hospital must successfully register for and attest to meaningful use no later than October 1, 2024.

(B) If in a prior year an eligible hospital has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 180-day period within CY 2024 and applies for the FY 2026 payment adjustment year.

(vii) The following are applicable for 2023:

(A) If a CAH has not successfully demonstrated it is a meaningful EHR user in a prior year, the EHR reporting period is any continuous 90-day period within CY 2023 and applies for the FY 2023 payment adjustment year.

(B) If in a prior year a CAH has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 90-day period within CY 2023 and applies for the FY 2023 payment adjustment year.

(vii) The following are applicable for 2024:

(A) If a CAH has not successfully demonstrated it is a meaningful EHR user in a prior year, the EHR reporting period is any continuous 180-day period within CY 2024 and applies for the FY 2024 payment adjustment year.

(B) If in a prior year a CAH has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 180-day period within CY 2024 and applies for the FY 2024 payment adjustment year.

(vii) The following are applicable for 2025:

(A) If a CAH has not successfully demonstrated it is a meaningful EHR user in a prior year, the EHR reporting period is any continuous 90-day period within CY 2024 and applies for the FY 2025 payment adjustment year.

(B) If in a prior year a CAH has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 90-day period within CY 2024 and applies for the FY 2025 payment adjustment year.

(vii) The following are applicable for 2026:

(A) If a CAH has not successfully demonstrated it is a meaningful EHR user in a prior year, the EHR reporting period is any continuous 180-day period within CY 2025 and applies for the FY 2026 payment adjustment year.

(B) If in a prior year a CAH has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 180-day period within CY 2025 and applies for the FY 2026 payment adjustment year.
user in a prior year, the EHR reporting period is any continuous 180-day period within CY 2024 and applies for the FY 2024 payment adjustment year. (B) If in a prior year a CAH has successfully demonstrated it is a meaningful EHR user, the EHR reporting period is any continuous 180-day period within CY 2024 and applies for the FY 2024 payment adjustment year.

Meaningful EHR user means all of the following:

(1) Subject to paragraph (3) of this definition, an EP, eligible hospital or CAH that, for an EHR reporting period for a payment year or payment adjustment year—

(i) Demonstrates in accordance with §495.40 meaningful use of certified EHR technology by meeting the applicable objectives and associated measures under §§495.20, 495.22, 495.24; (ii) Does not knowingly and willfully take action (such as to disable functionality) to limit or restrict the compatibility or interoperability of CEHRT;

(iii) Engages in activities related to supporting providers with the performance of CEHRT; and

(iv) Successfully reports the clinical quality measures selected by CMS to CMS or the States, as applicable, in the form and manner specified by CMS or the States, as applicable.

* * * * *

44. Section 495.24 is amended by—

a. Revising paragraph (e)(1)(i) and (e)(4)(ii);

b. Adding paragraph (e)(4)(iv);

c. Revising paragraphs (e)(5)(iii)(B), (e)(5)(iii)(B), and (e)(6)(ii) introductory text;

d. Adding paragraph (e)(6)(ii)(C);

e. In paragraph (e)(7)(ii) introductory text, removing the en dash and adding in its place “all of the following”:;

f. In paragraph (e)(7)(ii)(A), by removing “;” and adding in its place a period;

g. In paragraph (e)(7)(ii)(B), by removing the sentence “This measure is worth up to 40 points beginning in CY 2019.”;

h. Adding paragraph (e)(7)(ii)(C); and

i. Revising paragraphs (e)(8)(ii) introductory text, (e)(8)(ii)(A), (e)(8)(iii) introductory text, and (e)(8)(iii)(A), (D), and (E).

The revisions and additions read as follows:

§ 495.24 Stage 3 meaningful use objectives and measures for EPs, eligible hospitals and CAHs for 2019 and subsequent years.

* * * * *

(e) * * *

(1) * * *

(i) Except as specified in paragraph (e)(2) of this section, eligible hospitals and CAHs must do all of the following as part of meeting the definition of a meaningful EHR user under §495.4:

(A) Meet all objectives and associated measures of the Stage 3 criteria specified in this paragraph (e).

(B) In 2019, 2020, and 2021, earn a total score of at least 50 points.

(C) In 2022 and subsequent years, earn a total score of at least 60 points.

* * * * *

(4) * * *

(ii) Measure scoring. Eligible hospitals and CAHs are required to report on the security risk analysis measure in paragraph (e)(4)(iii) of this section, but no points are available for this measure. In 2022 and subsequent years, eligible hospitals and CAHs are required to report on the SAFER Guides measure in paragraph (e)(4)(iv) of this section, but no points are available for this measure.

* * * * *

(iv) SAFER Guides measure. Conduct an annual self-assessment using all nine SAFER Guides at any point during the calendar year in which the EHR reporting period occurs.

* * * * *

(5) * * *

(ii) * * *

(B) In 2020 and subsequent years, eligible hospitals and CAHs must meet the e-Prescribing measure in paragraph (e)(5)(iii)(A) of this section, and have the option to report on the query of PDMP measure in paragraph (e)(5)(iii)(B) of this section.

(1) In 2020 and 2021, the electronic prescribing objective in paragraph (e)(5)(i) of this section is worth up to 15 points.

(2) In 2022, the electronic prescribing objective in paragraph (e)(5)(i) of this section is worth up to 20 points.

(iii) * * *

(B) Query of prescription drug monitoring program (PDMP) measure. Subject to paragraph (e)(3) of this section, for at least one Schedule II opioid electronically prescribed using CEHRT during the EHR reporting period, the eligible hospital or CAH uses data from CEHRT to conduct a query of a Prescription Drug Monitoring Program (PDMP) for prescription drug history, except where prohibited and in accordance with applicable law. This measure is worth—

(1) 5 bonus points in CYs 2019, 2020, and 2021; and

(2) 10 bonus points in CY 2022.

* * * * *

(6) * * *

(ii) Measures. For CYs 2019, 2020, and 2021, eligible hospitals and CAHs must meet both of the measures specified in paragraphs (e)(6)(ii)(A) and (B) of this section (each worth up to 20 points). For CY 2022, eligible hospitals and CAHs either must meet both of the measures specified in paragraphs (e)(6)(ii)(A) and (B) of this section (each worth up to 20 points) or must meet the measure specified in paragraph (e)(6)(ii)(C) of this section (worth 40 points).

* * * * *

(C) Health information exchange (HIE) bi-directional exchange measure. Subject to paragraph (e)(3) of this section, the eligible hospital or CAH must attest to the following:

(1) Participating in an HIE in order to enable secure, bi-directional exchange of information to occur for all unique patients discharged from the eligible hospital or CAH inpatient or emergency department (POS 21 or 23), and all unique patient records stored or maintained in the EHR for these departments, during the EHR reporting period in accordance with applicable law and policy.

(2) Participating in an HIE that is capable of exchanging information across a broad network of unaffiliated exchange partners including those using disparate EHRs, and not engaging in exclusionary behavior when determining exchange partners.

(3) Using the functions of CEHRT to support bi-directional exchange with an HIE.

* * * * *

(7) * * *

(ii) * * *

(B) In 2021 and subsequent years, eligible hospitals and CAHs must meet both of the measures specified in paragraphs (e)(8)(ii)(A) through (F) of this section. In order to meet the objective under paragraph (e)(8)(i) of this section and receive 10 points, an
eligible hospital or CAH must meet each of the four measures specified in paragraphs (e)(6)(ii)(A), (B), (C), and (F) of this section. An eligible hospital or CAH will receive a bonus of 5 points for this objective if they meet one of the measures specified in paragraph (e)(8)(ii)(D) or (E).

(A) Syndromic surveillance reporting measure. For CYs 2019, 2020, and 2021, the eligible hospital or CAH is in active engagement with a public health agency to submit syndromic surveillance data from an urgent care setting. For CY 2022 and subsequent years, the eligible hospital or CAH is in active engagement with a public health agency to submit syndromic surveillance data from an emergency department setting (POS 23).

(iii) Exclusions in accordance with paragraph (e)(2) of this section. For CYs 2019, 2020, and 2021, if an exclusion is claimed under paragraphs (e)(8)(iii)(A) through (F) of this section for each of the two measures selected for reporting, the 10 points for the objective specified in paragraph (e)(8)(i) of this section will be redistributed to the provide patients electronic access to their health information measure under paragraph (e)(7)(ii) of this section. For CY 2022 and subsequent years, if an exclusion is claimed under paragraphs (e)(8)(iii)(A) through (F) of this section for each of the four measures required for reporting, the 10 points for the objective specified in paragraph (e)(8)(i) of this section will be redistributed to the provide patients electronic access to their health information measure under paragraph (e)(7)(ii) of this section.

(A) * * * *

(1) For CYs 2019, 2020 and 2021, does not have an emergency or urgent care department.

(2) For CY 2022 and subsequent years, does not have an emergency department.

(D)(1) For CYs 2019, 2020, and 2021, any eligible hospital or CAH meeting at least one of the following criteria may be excluded from the clinical data registry reporting measure specified in paragraph (e)(8)(ii)(E) of this section if the eligible hospital or CAH:

(i) Does not diagnose or directly treat any disease or condition associated with a clinical data registry in their jurisdiction during the EHR reporting period.

(ii) Operates in a jurisdiction for which no public health registry for which the eligible hospital or CAH is eligible has declared readiness to receive electronic registry transactions as of 6 months prior to the start of the EHR reporting period.

(2) For CY 2022 and subsequent years, the exclusions specified in paragraph (D)(1) of this paragraph are no longer available.

(E)(1) For CYs 2019, 2020, and 2021, any eligible hospital or CAH meeting at least one of the following criteria may be excluded from the clinical data registry reporting measure specified in paragraph (e)(8)(ii)(E) of this section if the eligible hospital or CAH:

(J) Actions to limit or restrict the compatibility or interoperability of CEHRT. For an EHR reporting period in CY 2022 and subsequent years, the eligible hospital or CAH must attest that it did not knowingly and willfully take action (such as to disable functionality) to limit or restrict the compatibility or interoperability of certified EHR technology.

* * * *


Xavier Becerra,
Secretary, Department of Health and Human Services.

Note: The following Addendum and Appendixes will not appear in the Code of Federal Regulations.

Addendum—Schedule of Standardized Amounts, Update Factors, Rate-of-Increase Percentages Effective With Cost Reporting Periods Beginning on or After October 1, 2021, and Payment Rates for LTCHs Effective for Discharges Occurring on or After October 1, 2021

I. Summary and Background

In this Addendum, we are setting forth a description of the methods and data we used to determine the proposed prospective payment rates for Medicare hospital inpatient operating costs and Medicare hospital inpatient capital-related costs for FY 2022 for acute care hospitals. We also are setting forth the rate-of-increase percentage for updating the target amounts for certain hospitals excluded from the IPPS for FY 2022. We note that, because certain hospitals excluded from the IPPS are paid on a reasonable cost basis subject to a rate-of-increase ceiling (and not by the IPPS), these hospitals are not affected by the proposed figures for the standardized amounts, offsets, and budget neutrality factors. Therefore, in this proposed rule, we are setting forth the rate-of-increase percentage for updating the target amounts for certain hospitals excluded from the IPPS that would be effective for cost reporting periods beginning on or after October 1, 2021.

In addition, we are setting forth a description of the methods and data we used to determine the proposed LTCH PPS standard Federal payment rate that would be applicable to Medicare LTCHs for FY 2022. In general, except for SCHs and MDHs, for FY 2022, each hospital’s payment per discharge under the IPPS is based on 100 percent of the Federal national rate, also known as the national adjusted standardized amount. This amount reflects the national average hospital cost per case from a base year, updated for inflation.
Proposed FY 2022 Applicable Percentage Increases for the IPPS

<table>
<thead>
<tr>
<th>FY 2022</th>
<th>Hospital Submitted Quality Data and is a Meaningful EHR User</th>
<th>Hospital Submitted Quality Data and is NOT a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is NOT a Meaningful EHR User</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Proposed Market Basket Rate-of-Increase</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>Proposed Adjustment for Failure to Submit Quality Data under Section 1886(b)(3)(B)(viii) of the Act</td>
<td>0</td>
<td>0</td>
<td>-0.625</td>
</tr>
<tr>
<td></td>
<td>Proposed Adjustment for Failure to be a Meaningful EHR User under Section 1886(b)(3)(B)(ix) of the Act</td>
<td>0</td>
<td>-1.875</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Proposed MFP Adjustment under Section 1886(b)(3)(B)(x) of the Act</td>
<td>-0.2</td>
<td>-0.2</td>
<td>-0.2</td>
</tr>
<tr>
<td></td>
<td>Proposed Applicable Percentage Increase Applied to Standardized Amount</td>
<td>2.3</td>
<td>0.425</td>
<td>1.675</td>
</tr>
</tbody>
</table>

We note that section 1886(b)(3)(B)(viii) of the Act, which specifies the adjustment to the applicable percentage increase for "subsection (d)" hospitals that do not submit quality data under the rules established by the Secretary, is not applicable to hospitals located in Puerto Rico.

In addition, section 602 of Public Law 114–113 amended section 1886(n)(6)(B) of the Act to specify that Puerto Rico hospitals are eligible for incentive payments for the meaningful use of certified EHR technology, effective beginning FY 2016, and also to apply the adjustments to the applicable percentage increase under section 1886(b)(3)(B)(ix) of the Act to subsection (d) Puerto Rico hospitals that are not meaningful...
EHR users, effective beginning FY 2022. Accordingly, for FY 2022, section 1886(b)(3)(B)(ix) of the Act in conjunction with section 602(d) of Public Law 114–113 requires that any subsection (d) Puerto Rico hospital that is not a meaningful EHR user (as defined in section 1886(n)(3) of the Act) and not subject to an exception under section 1886(b)(3)(B)(ix) of the Act will have “three-quarters” of the applicable percentage increase (prior to the application of other statutory adjustments), or three-quarters of the applicable percentage increase, reduced by 33 1/3 percent. The reduction to three-quarters of the applicable percentage increase for subsection (d) Puerto Rico hospitals that are not meaningful EHR users increases to 66 2/3 percent for FY 2023, and, for FY 2024 and subsequent fiscal years, to 100 percent. In the FY 2019 IPPS/LTC PPS final rule, we finalized the payment reductions (83 FR 41674). [We note that section 1886(b)(3)(B)(viii) of the Act, which specifies the applicable percentage increase for “subsection (d)” hospitals that do not submit quality data under the rules established by the Secretary, is not applicable to hospitals located in Puerto Rico.] The regulations at 42 CFR 412.64(d)(3)(ii) reflect the current law for the update for subsection (d) Puerto Rico hospitals for FY 2022 and subsequent fiscal years.  

- An adjustment to the standardized amount to ensure budget neutrality for DRG recalibration and reclassification, as provided for under section 1886(d)(4)(C)(iii) of the Act.  
- An adjustment to ensure the wage index and labor-related share changes (depending on the fiscal year) are budget neutral, as provided for under section 1886(d)(3)(E)(i) of the Act (as discussed in the FY 2006 IPPS final rule (70 FR 47395) and the FY 2010 IPPS final rule (74 FR 44005). We note that section 1886(d)(3)(E)(i) of the Act requires that when we compute such budget neutrality, we assume that the provisions of section 1886(d)(3)(E)(i) of the Act (requiring a 62-percent labor-related share in certain circumstances) had not been enacted. 
- An adjustment to ensure the effects of geographic reclassification are budget neutral, as provided for under section 1886(d)(1)(D) of the Act, by removing the FY 2020 budget neutrality factor and applying a revised factor. 
- A positive adjustment of 0.5 percent in FYs 2019 through 2023 as required under section 414 of the MACRA. 
- An adjustment to ensure the effects of the Rural Community Hospital Demonstration program required under section 410A of Public Law 108–173 (as amended by sections 3123 and 10313 of Public Law 113–18). The demonstration program for an additional 5 years and section 15003 of Public Law 114–255, are budget neutral as required under section 410A(c)(2) of Public Law 108–173. 
- An adjustment to the standardized amount or a budget neutral manner the increase in the wage index values for hospitals with a wage index value below the 25th percentile wage index value across all hospitals (as described in section III.N. of the preamble of this proposed rule). 
- An adjustment to remove the FY 2021 outlier offset and apply an offset for FY 2022, as provided for in section 1886(d)(3)(B) of the Act. 

For FY 2022, consistent with current law, we are proposing to apply the rural floor budget neutrality adjustment to hospital wage indexes. Also, consistent with section 3141 of the Medicare Extension Act, instead of applying a State-level rural floor budget neutrality adjustment to the wage index, we are proposing to apply a uniform, national budget neutrality adjustment to the FY 2022 wage index for the rural floor. For FY 2022, we are proposing to not remove the FY 2021 Stem Cell Acquisition Budget Neutrality Factor from the prior year’s standardized amount and to not apply a new factor. If we removed the prior year’s adjustment, we would not satisfy budget neutrality. We believe this approach ensures the effects of the reasonable cost based payment for allogeneic hematopoietic stem cell acquisition costs under section 108 of the Further Consolidated Appropriations Act, 2020 (Pub. L. 116–94) are budget neutral as required under section 116–94. For a discussion of Stem Cell Acquisition Budget Neutrality Factor, we refer the reader to the FY 2021 IPPS/LTC PPS final rule (85 FR 59032–59033). When cost data reporting reasonable cost of acquisition becomes available, we intend to consider using that reasonable cost data in future rulemaking for budget neutrality.

### A. Calculation of the Proposed Adjusted Standardized Amount

**1. Standardization of Base-Year Costs or Target Amounts**

In general, the national standardized amount is based on per discharge averages of adjusted hospital costs from a base period (section 1886(d)(2)(A) of the Act). Updated and otherwise adjusted in accordance with the provisions of section 1886(d) of the Act. The September 1, 1983 interim final rule (48 FR 39763) contained a detailed explanation of how base-year cost data (from cost reporting periods ending during FY 1981) were established for urban and rural hospitals in the (25709 Federal Register

Section 1886(d)(1)(A)(iv)(II) of the Act requires that, beginning with FY 2004 and thereafter, an equal standardized amount be computed for all hospitals at the level computed for large urban hospitals during FY 2003, updated by the applicable percentage update. Accordingly, we are proposing to calculate the FY 2022 national average standardized amount irrespective of whether a hospital is located in an urban or rural location.

### 3. Updating the National Average Standardized Amount

Section 1886(d)(1)(B) of the Act specifies the applicable percentage increase used to update the standardized amount for payment for inpatient hospital operating costs. We note that, in compliance with section 404 of the MMA, we are proposing to use the proposed 2018-based IPPS operating and capital market baskets for FY 2022. As discussed in section IV.B. of the preamble of this proposed rule, in accordance with section 1886(d)(3)(B) of the Act, as amended by section 3401(a) of the Medicare Extension Act, we are proposing to reduce the FY 2022 applicable percentage increase (which for this proposed rule is based on IGI’s fourth quarter 2020 forecast of the proposed 2018-based IPPS market basket) by the MFP adjustment, as discussed elsewhere in this proposed rule. Based on IGI’s fourth quarter 2020 forecast of the hospital market basket increase (as discussed in Appendix B of this proposed rule), the forecast of the hospital market basket increase for FY 2022 is 2.5 percent. As discussed earlier, for FY 2022, depending on whether a hospital submits quality data under the rules established in accordance with section 1886(b)(3)(B)(viii) of the Act and is a meaningful EHR user under section 1886(b)(3)(B)(ix) of the Act, there are four possible applicable percentage increases that can be applied to the standardized amount. We refer readers to section IV.B. of the preamble of this proposed rule for a complete discussion on the FY 2022 inpatient hospital update to the standardized amount. We also refer readers to the previous table for the four
possible applicable percentage increases that would be applied to update the national standardized amount. The proposed standardized amounts shown in Tables 1A through 1C that are published in section VI. of this Addendum and that are available via the internet at the CMS website reflect these differential amounts.

Although the update factors for FY 2022 are set by law, we are required by section 1886(e)(4) of the Act to recommend, taking into account MedPAC’s recommendations, appropriate factors for FY 2022 for both IPPS hospitals and hospitals and hospital units excluded from the IPPS. Section 1886(e)(5)(A) of the Act requires that we publish our recommendations in the Federal Register for public comment. Our recommendation on the update factors is set forth in Appendix B of this proposed rule.

4. Methodology for Calculation of the Average Standardized Amount

As discussed in section I.F. of the preamble of this proposed rule, we are proposing to use alternative data for the FY 2022 ratesetting in situations where the latest data available that would typically be used for the proposed rule is significantly impacted by the COVID–19 PHE. We refer the reader to section I.F. of the preamble of this proposed rule for further discussion of this proposal and our analysis of the best available data for purposes of FY 2022 ratesetting. In this section, we discuss the data we are proposing to use for our FY 2022 ratesetting process for the modeling of payments for the budget neutrality factors and the outlier fixed-loss cost threshold.

Ordinarily, the best available MedPAR data for our ratesetting process would be the most recent MedPAR file that contains claims from discharges for the fiscal year that is 2 years prior to the fiscal year that is the subject of the rulemaking. For FY 2022, under ordinary circumstances, the best available data to model payments for FY 2022 and calculate the budget neutrality adjustments described in this section would be the FY 2020 MedPAR file (discharges on or after October 1, 2019 through discharges on or before September 30, 2020). However, for the reasons discussed in section I.F. of this proposed rule, we are proposing to instead use the FY 2019 MedPAR claims data, including for purposes of calculating the proposed budget neutrality adjustments and proposed outlier fixed-loss cost threshold. As discussed in section I.F., we are also soliciting comments on an alternative to this proposal of using the same FY 2020 data that we would ordinarily use for purposes of FY 2022 ratesetting, which we may consider finalizing for FY 2022 based on consideration of comments received.

The methodology we used to calculate the proposed FY 2022 standardized amount is as follows:

• To ensure we are only including hospitals paid under the IPPS in the calculation of the standardized amount, we applied the following inclusion and exclusion criteria: Include hospitals whose last four digits fall between 0001 and 0879 (section 2779A1 of Chapter 2 of the State Operations Manual on the CMS website at: https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/som107c02.pdf), exclude EAHs at the time of this proposed rule; exclude hospitals in Maryland (because these hospitals are paid under an all-payer model under section 1115A of the Act); and remove PPS excluded–cancer hospitals that have a “V” in the fifth position of their provider number or a “E” or “P” in the last four digits of their provider number.

• As in the past, we are proposing to adjust the FY 2022 standardized amount to remove the effects of the FY 2021 geographic reclassifications and outlier payments before applying the FY 2022 updates. We then applied budget neutrality offsets for outliers and geographic reclassifications to the standardized amount based on proposed FY 2022 payment policies.

• We do not remove the prior year’s budget neutrality adjustments for reclassification and recalibration of the DRG relative weights and for updated wage data because, in accordance with section 1886(d)(3)(E) and 1886(d)(3)(I) of the Act, estimated aggregate payments after updates in the DRG relative weights and wage index should equal estimated aggregate payments prior to the changes. If we removed the prior year’s adjustments, we would not satisfy these conditions.

Budget neutrality is determined by comparing aggregate IPPS payments before and after making changes that are required to be budget neutral (for example, changes to MS–DRG classifications, recalibration of the MS–DRG relative weights, updates to the wage index, and different geographic reclassifications). We include outlier payments in the simulations because they may be affected by changes in these parameters.

• Consistent with our methodology established in the FY 2011 IPPS/LTCH PPS final rule (75 FR 50422 through 50433), because IME Medicare Advantage payments are made to IPPS hospitals under section 1886(d) of the Act, we believe these payments must be part of these budget neutrality calculations. However, we note that it is not necessary to include Medicare Advantage IME payments in the outlier threshold calculation or the outlier offset to the standardized amount because the statute requires that outlier payments be no less than 5 percent nor more than 6 percent of total “operating DRG payments,” which does not include IME and DSH payments. We refer readers to the FY 2011 IPPS/LTCH PPS final rule for a complete discussion on our methodology of identifying and adding the total Medicare Advantage IME payment amount to the budget neutrality adjustments.

• Consistent with the methodology in the FY 2012 IPPS/LTCH PPS final rule, in order to ensure that we capture only fee-for-service claims, we are only including claims with a “Claim Type” of 60 (which is a field on the MedPAR file that indicates a claim is an FFS claim).

• Consistent with our methodology established in the FY 2017 IPPS/LTCH PPS final rule (81 FR 57277), in order to further ensure that we capture only FFS claims, we are excluding claims with a “GOHAID” indicator of 1 (which is a field on the MedPAR file that indicates a claim is not an FFS claim and is paid by a Group Health Organization).

• Consistent with our methodology established in the FY 2011 IPPS/LTCH PPS final rule (75 FR 50422 through 50423), we examine the MedPAR file and remove pharmacy charges for anti-hemorrhagic blood factor (which are paid separately under the IPPS; paid with an indicator of “3” for blood clotting with a revenue code of “0636” from the covered charge field for the budget neutrality adjustments. We are proposing to remove organ acquisition charges, except for cases that group to MS–DRG 018, from the covered charge field for the budget neutrality adjustments because organ acquisition is a
pass-through payment not paid under the IPPS. Revenue centers 081X–089X are typically excluded from ratesetting, however, we are proposing to not remove revenue center 891 charges from MS–DRG 018 claims during ratesetting, because those revenue 891 charges were included in the relative weight calculation for MS–DRG 018, which is consistent with the policy finalized in FY 2021 final rule (85 FR 58600). We note that a new MedPAR variable for revenue code 891 charges was introduced in April 2020.

In FY 2022 and subsequent fiscal years, we are proposing to remove allogeneic hematopoietic stem cell acquisition costs from the covered charge field for budget neutrality adjustments. As discussed in the FY 2021 IPPS/LTCH PPS final rule, payment for allogeneic hematopoietic stem cell acquisition costs is made on a reasonable cost basis for cost reporting periods beginning on or after October 1, 2020 (85 FR 58835–58842).

• The participation of hospitals under the BPCI Advanced model started on October 1, 2018. The BPCI Advanced model, tested under the authority of section 3021 of the Affordable Care Act (codified at section 1115A of the Act), is comprised of a single payment and risk track, which bundles payments for multiple services beneficiaries receive during a Clinical Episode. Acute care hospitals may participate in the BPCI Advanced model in one of two capacities: as a model Participant or as a downstream Episode Initiator. Regardless of the capacity in which they participate in the BPCI Advanced model, participating acute care hospitals would continue to receive IPPS payments under section 1886(d) of the Act. Acute care hospitals that are Participants also assume financial and quality performance accountability for Clinical Episodes in the form of a reconciliation payment. For additional information on the BPCI Advanced model, we refer readers to the BPCI Advanced web page on the CMS Center for Medicare and Medicaid Innovation’s website at: http://innovation.cms.gov/initiatives/bpci-advanced/.

For FY 2022, consistent with how we treated hospitals that participated in the BPCI Advanced Model in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59029–59030), we are proposing to include all applicable data from subsection (d) hospitals participating in the BPCI Advanced model in our IPPS payment modeling and ratesetting calculations. We believe it is appropriate to include all applicable data from the subsection (d) hospitals participating in the BPCI Advanced model in our IPPS payment modeling and ratesetting calculations because these hospitals are still receiving IPPS payments under section 1886(d) of the Act. For the same reasons, we also are proposing to include all applicable data from subsection (d) hospitals participating in the Comprehensive Care for Joint Replacement (CJR) Model in our IPPS payment modeling and ratesetting calculations.

• Consistent with our methodology established in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53687 through 53688), we believe that it is appropriate to include adjustments for the Hospital Readmissions Reduction Program and the Hospital VBP Program (established under the Affordable Care Act) within our budget neutrality calculations.

Both the hospital readmissions payment adjustment and the hospital VBP payment adjustment (redistribution) are applied on a claim-by-claim basis by adjusting, as applicable, the base-operating DRG payment amount for individual subsection (d) hospitals, which affects the overall sum (aggregate) payments on each side of the comparison within the budget neutrality calculations.

In order to properly determine aggregate payments on each side of the comparison, consistent with the approach we have taken in prior years, for FY 2022, we are proposing to continue to apply a proposed proxy based on the prior fiscal year hospital readmissions payment adjustment (for FY 2022 this would be FY 2021 final adjustment factors from Table 15 of the FY 2021 IPPS/LTCH PPS final rule) and a proposed proxy based on the prior fiscal year hospital VBP payment adjustment (for FY 2022 this would be FY 2021 final adjustment factors from Table 16B of the FY 2021 IPPS/LTCH PPS final rule) on each side of the comparison, consistent with the methodology that we adopted in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53687 through 53688). That is, we are proposing to apply a proxy readmissions payment adjustment factor and a proxy hospital VBP payment adjustment factor from the prior final rule on both sides of our comparison of aggregate payments in determining all budget neutrality factors described in section II.A.4. of this Addendum.

• The Affordable Care Act also established section 1886(e) of the Act, which modifies the methodology for computing the Medicare DSH payment adjustment beginning in FY 2014. Beginning in FY 2014, IPPS hospitals receiving Medicare DSH payment adjustments receive an empirically justified Medicare DSH payment equal to 25 percent of the amount that would previously have been paid under the statutory formula set forth under section 1886(f)(5)(F) of the Act governing the Medicaid DSH payment adjustment. In accordance with section 1886(e)(2) of the Act, the remaining amount, equal to an estimate of 75 percent of what otherwise would have been paid as Medicare DSH payments, reduced to reflect changes in the percentage of individuals who are uninsured and any additional statutory adjustment, would be available to make additional payments to Medicare DSH hospitals based on their share of the total amount of uncompensated care reported by Medicare DSH hospitals for a given time period. In order to properly determine aggregate payments on each side of the comparison for budget neutrality, prior to FY 2014, we included estimated Medicare DSH payments recalibrated to account for the statutory expansion of the postacute care transfer policy to include discharges to hospice care by a hospice program as discussed in section IV.A.2.b. of the preamble of this proposed rule. a. Proposed Reclassification and Recalculation of MS–DRG Relative Weights

Section 1886(d)(4)(C)(iii) of the Act specifies that, beginning in FY 1991, the annual DRG reclassification and recalcification of the relative weights must be made in a manner that ensures that aggregate payments to hospitals are not affected. As discussed in section II.G. of the preamble of this proposed rule, we normalized the recalibrated MS–
DRG relative weights by an adjustment factor so that the average case relative weight after recalibration is equal to the average case relative weight prior to recalibration. However, equating the average case relative weight after recalibration to the average case relative weight before recalibration does not necessarily achieve budget neutrality with respect to aggregate payments to hospitals because payments to hospitals are affected by factors other than average case relative weight. Therefore, as we have done in past years, we are proposing to make a budget neutrality adjustment to ensure that the requirement of section 1886(d)(4)(C)(iii) of the Act is met.

For this FY 2022 proposed rule, to comply with the requirement that MS–DRG reclassification and recalibration of the relative weights be budget neutral for the standardized amount and the hospital-specific rates, we used FY 2019 discharge data to simulate payments and compared the following:

- Aggregate payments using the FY 2021 labor-related share percentages, the FY 2021 relative weights, and the FY 2021 pre-reclassified wage data, and applied the estimated FY 2022 hospital readmissions payment adjustments and estimated FY 2022 hospital VBP payment adjustments; and

- Aggregate payments using the FY 2021 labor-related share percentages, the proposed FY 2022 relative weights, and the FY 2021 pre-reclassified wage data, and applied the estimated FY 2022 hospital readmissions payment adjustments and estimated FY 2022 hospital VBP payment adjustments applied previously. Because this payment simulation uses the FY 2022 relative weights, consistent with our proposal in section IV of the preamble to this proposed rule, we applied the proposed adjustor for certain cases that group to MS–DRG 018 in our simulation of these payments. We note that because the simulations of payments for all of the budget neutrality factors discussed in this section also use the FY 2022 relative weights, we are proposing an adjustor for certain MS–DRG 18 cases in all simulations of payments for the budget neutrality factors discussed later in this section. We refer the reader to section IV of the preamble of this proposed rule for a complete discussion on the proposed adjustor for certain cases that group to MS–DRG 018 and to section II.E.2.b. of the proposed rule, for a complete discussion of the proposed adjustment to the FY 2022 relative weights to account for certain cases that group to MS–DRG 18.

Based on this comparison, we computed a proposed budget neutrality adjustment factor and applied this factor to the standardized amount. As discussed in section IV of this Addendum, we are proposing to apply the MS–DRG reclassification and recalibration budget neutrality factor to the hospital-specific rates that are effective for cost reporting periods beginning on or after October 1, 2021. Please see the table later in this section for a summary of the FY 2022 proposed budget neutrality factors.

b. Updated Wage Index—Proposed Budget Neutrality Adjustment

Section 1886(d)(3)(E)(i) of the Act requires us to update the hospital wage index on an annual basis beginning October 1, 1993. This provision also requires us to make any updates or adjustments to the wage index in a manner that ensures that aggregate payments to hospitals are not affected by the change in the wage index. Section 1886(d)(3)(E)(i) of the Act requires that we implement the wage index adjustment in a budget neutral manner. However, section 1886(d)(3)(E)(ii) of the Act sets the labor-related share at 62 percent for hospitals with a wage index less than or equal to 1.0000, and section 1886(d)(3)(E)(i) of the Act provides that the Secretary shall calculate the budget neutrality adjustment for the adjustments or updates made under that provision as if section 1886(d)(3)(E)(ii) of the Act had not been enacted. In other words, this section of the statute requires that we implement the updates to the wage index in a budget neutral manner, but that our budget neutrality adjustment should not take into account the requirement that we set the labor-related share for hospitals with wage indexes less than or equal to 1.0000 at the more advantageous level of 62 percent. Therefore, for purposes of this budget neutrality adjustment, section 1886(d)(3)(E)(i) of the Act prohibits us from taking into account the fact that hospitals with a wage index less than or equal to 1.0000 are paid using a labor-related share of 62 percent.

Consistent with current policy, for FY 2022, we are proposing to adjust 100 percent of the wage index factor for occupational mix. We describe the occupational mix adjustment in section III.E. of the preamble of this proposed rule.

To compute a proposed budget neutrality adjustment factor for wage index and labor-related share percentages, we used FY 2019 discharge data to simulate payments and compared the following:

- Aggregate payments using the proposed FY 2022 relative weights and the FY 2021 pre-reclassified wage indexes, applied the FY 2021 labor-related share of 62 percent to all hospitals (regardless of whether the hospital’s wage index was above or below 1.0000), and applied the proposed FY 2022 hospital readmissions payment adjustment and the estimated FY 2022 hospital VBP payment adjustment; and

- Aggregate payments using the proposed FY 2022 relative weights and the proposed FY 2022 pre-reclassified wage indexes, applied the proposed labor-related share for FY 2022 of 67.6 percent to all hospitals (regardless of whether the hospital’s wage index was above or below 1.0000), and applied the same proposed FY 2022 hospital readmissions payment adjustments and estimated FY 2022 hospital VBP payment adjustments applied previously.

In addition, section IV of this Addendum, we are proposing to apply the MS–DRG reclassification and recalibration budget neutrality adjustment factor (derived in the first step) to the payment rates that were used to simulate payments for this comparison of aggregate payments from FY 2021 to FY 2022. Based on this comparison, we computed a proposed budget neutrality adjustment factor and applied this factor to the standardized amount for changes to the wage index. Please see the table later in this section for a summary of the FY 2022 proposed budget neutrality factors.

c. Reclassified Hospitals—Proposed Budget Neutrality Adjustment

Section 1886(d)(8)(B) of the Act provides for the reclassification of hospitals based on determinations by the MGCRB. Under section 1886(d)(10) of the Act, a hospital may be reclassified for purposes of the wage index.

Under section 1886(d)(8)(D) of the Act, the Secretary is required to adjust the standardized amount to ensure that aggregate payments under the IPPS after implementation of the provisions of sections 1886(d)(8)(B) and (C) and 1886(d)(10) of the Act are equal to the aggregate prospective payments that would have been made absent these provisions. We note, with regard to the requirement under section 1886(d)(8)(C)(iii) of the Act, as finalized in the FY 2020 IPPS/LTCPP final rule (84 FR 42333 through 42336), we excluded the wage data of urban hospitals that have reclassified as rural under section 1886(d)(8)(E) of the Act (as implemented in § 412.103) from the calculation of the wage index for rural areas in the State in which the county is located. We refer the reader to the FY 2015 IPPS final rule (79 FR 50371 and 50372) for a complete discussion regarding the requirement of section 1886(d)(8)(C)(iii) of the Act.

We further note that the wage index adjustments provided for under section 1886(d)(13) of the Act are not budget neutral. Section 1886(d)(13)(H) of the Act provides that any increase in a wage index under section 1886(d)(13) of the Act shall not be taken into account in applying any budget neutrality adjustment with respect to such index under section 1886(d)(10) of the Act. To calculate the proposed budget neutrality adjustment factor for FY 2022, we used FY 2019 discharge data to simulate payments and compared the following:

- Aggregate payments using the proposed FY 2022 labor-related share percentage, the proposed FY 2022 relative weights, and the proposed FY 2022 wage data prior to any reclassifications under sections 1886(d)(8)(B) and (C) and 1886(d)(10) of the Act, and applied the estimated FY 2022 hospital readmissions payment adjustments and the estimated FY 2022 hospital VBP payment adjustments; and

- Aggregate payments using the proposed FY 2022 labor-related share percentage, the proposed FY 2022 relative weights, and the estimated FY 2022 wage data after such reclassifications, and applied the same estimated FY 2022 hospital readmissions payment adjustments and the estimated FY 2022 hospital VBP payment adjustments applied previously.

We note that the reclassifications applied under the second simulation and comparison are those listed in Table 2 associated with this proposed rule, which is available via the internet on the CMS website. This table reflects reclassification crosswalks proposed for FY 2022, and applies the proposed
policies explained in section III. of the preamble of this proposed rule. Based on this comparison, we computed a proposed budget neutrality adjustment factor and applied this factor to the standardized amount to ensure that the effects of these provisions are budget neutral, consistent with the statute. Please see the table later in this section for a summary of the proposed FY 2022 budget neutrality factors.

The proposed FY 2022 budget neutrality adjustment factor was applied to the proposed standardized amount after removing the effects of the FY 2021 budget neutrality adjustment factor. We note that the proposed FY 2022 budget neutrality adjustment reflects FY 2022 wage index reclassifications approved by the MCRBR or the Administrator at the time of development of this proposed rule.

As discussed in the interim final rule with comment period titled “Modification of Limitations on Redesignation by the Medicare Geographic Classification Review Board (MCRBR) Act” and that may have been made in the absence of this provision. Consistent with section 3141 of the Affordable Care Act and as discussed in section III.G. of the preamble of this proposed rule and as noted in section 412.64(e)(4)(i), the budget neutrality adjustment for the rural floor is a national adjustment to the wage index. We note, as finalized in the FY 2020 IPPS/LTC final rule (84 FR 42332 through 42336), for FY 2022 we are calculating the rural floor without including the wage data of urban hospitals that have reclassified as rural under section 1886(d)(6)(E) of the Act (as implemented in §412.103).

Similar to our calculation in the FY 2015 IPPS/LTC final rule (79 FR 50369 through 50370), for FY 2022, we are proposing to calculate a national rural Puerto Rico wage index. We note that there are no rural Puerto Rico hospitals with established wage data, our calculation of the FY 2021 rural Puerto Rico wage index is based on the policy adopted in the FY 2008 IPPS final rule with comment period (72 FR 47323). That is, we use the national wage index for all CBSAs (urban areas) that are contiguous (share a border with) to the rural counties to compute the rural floor (72 FR 47323; 76 FR 51594). Under the OMB labor market area delineations, except for Areco, Puerto Rico (CBSA 11640), all other Puerto Rico urban areas are contiguous to a rural area. Therefore, based on our existing policy, the proposed FY 2022 rural Puerto Rico wage index is calculated based on the average of the proposed FY 2022 wage indexes for the following urban areas: San Juan-Isabela, PR (CBSA 10380); Guayama, PR (CBSA 25020); Mayaguez, PR (CBSA 32420); Ponce, PR (CBSA 38660); San German, PR (CBSA 41900); and San Juan-Carolina-Caguas, PR (CBSA 41900).

To calculate the national rural floor budget neutrality adjustment factor, we used FY 2019 discharge data to simulate payments, and the post-reclassified national wage indexes and compared the following:

- National simulated payments without the rural floor; and
- National simulated payments with the rural floor.

Based on this comparison, we determined a proposed national rural floor budget neutrality adjustment factor. The national adjustment was applied to the national wage indexes to produce proposed rural floor budget neutral wage indexes. Please see the table later in this section for a summary of the proposed FY 2022 budget neutrality factors.

As further discussed in section III.G.2 of this proposed rule, we note that section 9831 of the Affordable Care Act, as further discussed later in this section. We make an adjustment to the standardized amount to ensure the effects of the Rural Community Hospital Demonstration program are budget neutral as required under section 1886(d)(3)(E)(vi) of the Act, which was originally authorized for a 5-year period by section 410A of the Medicare Prescription Drug, Improvement, and Modernization Act of 2003 (Pub. L. 108–173), and extended for another 5-year period by sections 3123 and 10315 of the Affordable Care Act (Pub. L. 111–148). Subsequently, section 5003 of the 21st Century Cures Act (Pub. L. 114–255), enacted December 13, 2016, amended section 410A of Public Law 108–173 to require a 10-year extension period (in place of the 5-year extension required by the Affordable Care Act, as further discussed later in this section).

In section V.L. of the preamble of this proposed rule, we discuss the Rural Community Hospital Demonstration program, which was originally authorized for a 5-year period by section 410A of the Medicare Prescription Drug, Improvement, and Modernization Act of 2003 (Pub. L. 108–173), and extended for another 5-year period by sections 3123 and 10315 of the Affordable Care Act (Pub. L. 111–148). Subsequently, section 5003 of the 21st Century Cures Act (Pub. L. 114–255), enacted December 13, 2016, amended section 410A of Public Law 108–173 to require a 10-year extension period (in place of the 5-year extension required by the Affordable Care Act, as further discussed later in this section).

When regard to budget neutrality, as mentioned earlier, we make an adjustment to the standardized amount to ensure the effects of the Rural Community Hospital Demonstration program are budget neutral, as required under section 410A(c)(2) of Public Law 108–173. For FY 2022, based on the latest data for this program that we used to calculate the total amount that we are applying to make an adjustment to the standardized amounts to ensure the effects of the Rural Community Hospital Demonstration program are budget neutral is $63,829,479.00. Accordingly, using the most recent data for the estimated costs of the demonstration program, for FY 2022, we computed a factor for the Rural Community Hospital Demonstration budget neutrality adjustment that would be applied to the standardized amount. Please see the table later in this section for a summary of the FY 2022 budget application of the rural floor and would apply no reductions to the standardized amount or to the wage index to fund the increase in payments to hospitals in all-urban States resulting from the application of the imputed floor. As further explained in section III.G.2 of this proposed rule, given the recent enactment of section 9831 of Public Law 117–2 on March 11, 2021, there was not sufficient time available to incorporate the changes required by this statutory provision (which provides for the application of the imputed floor adjustment in a budget neutral manner beginning in FY 2022) into the calculation of the provider wage index for this proposed rule. We will include the imputed floor adjustment in the calculation of the provider wage index in the FY 2022 final rule. We refer the reader to section III.G.2 of the preamble of this proposed rule for a complete discussion regarding the imputed floor.
neutrality factors. We refer readers to section V.I. of the preamble of this proposed rule on complete details regarding the calculation of the amount we are applying to make an adjustment to the standardized amounts.

f. Continuation of the Low Wage Index Hospital Policy—Proposed Budget Neutrality Adjustment

As discussed in section III.G.3. of the preamble of this proposed rule, we are continuing the wage index policy finalized in the FY 2020 IPPS/LTCH PPS final rule to address wage index disparities by increasing the wage index values for hospitals with a wage index value below the 25th percentile wage index value across all hospitals (the low wage index hospital policy). As discussed in section III.G.3 of this proposed rule, consistent with our current methodology for implementing wage index budget neutrality under section 1866(d)(3)(E) of the Act, we are proposing to make a budget neutrality adjustment to the national standardized amount for all hospitals so that the increase in the wage index for hospitals with a wage index below the 25th percentile wage index, is implemented in a budget neutral manner.

To calculate this proposed budget neutrality adjustment factor for FY 2022, we used FY 2019 discharge data to simulate payments and compared the following:

- Aggregate payments using the proposed FY 2022 labor-related share percentage, the proposed FY 2022 relative weights, and the proposed FY 2022 wage index for each hospital before adjusting the wage indexes under the low wage index hospital policy, and

and the estimated FY 2022 hospital readmissions payment adjustments and the estimated FY 2022 hospital VBP payment adjustments, and the operating outlier reconciliation adjusted outlier percentage discussed later in this section.

This proposed FY 2022 budget neutrality adjustment factor was applied to the standardized amount.

The following table is a summary of the proposed FY 2022 budget neutrality factors, as discussed in the previous sections.

<table>
<thead>
<tr>
<th>Summary of Proposed FY 2022 Budget Neutrality Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-DRG Reclassification and Recalibration Budget Neutrality Factor</td>
</tr>
<tr>
<td>Wage Index Budget Neutrality Factor</td>
</tr>
<tr>
<td>Reclassification Budget Neutrality Factor</td>
</tr>
<tr>
<td>*Rural Floor Budget Neutrality Factor</td>
</tr>
<tr>
<td>Rural Demonstration Budget Neutrality Factor</td>
</tr>
<tr>
<td>Low Wage Index Hospital Policy Budget Neutrality Factor</td>
</tr>
</tbody>
</table>

*The rural floor budget neutrality factor is applied to the national wage indexes while the rest of the budget neutrality adjustments are applied to the standardized amounts.

In order to facilitate comments on the alternative approach discussed in section I.F of this proposed rule of using the same FY 2020 data that we would ordinarily use for purposes of FY 2022 ratesetting, and which we may consider finalizing for FY 2022 based on consideration of comments received, we are making available the budget neutrality and other ratesetting adjustments calculated under this alternative approach, which can be found on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.

g. Proposed Adjustment for FY 2022 Required Under Section 414 of Public Law 114–10 (MACRA)

As stated in the FY 2017 IPPS/LTCH PPS final rule (81 FR 56785), once the recoupment required under section 631 of the ATRA was complete, we had anticipated making a single positive adjustment in FY 2018 to offset the reductions required to recoup the $11 billion under section 631 of the ATRA. However, section 414 of the MACRA (which was enacted on April 16, 2015) replaced the single positive adjustment we intended to make in FY 2018 with a 0.5 percent positive adjustment for each of FY’s 2018 through 2023. (As noted in the FY 2018 IPPS/LTCH PPS proposed and final rules, section 15005 of the 21st Century Cures Act (Pub. L. 114–255), which was enacted December 13, 2016, reduced the adjustment for FY 2018 from 0.5 percentage points to 0.4586 percentage points.) Therefore, for FY 2022, we are proposing to implement the required +0.5 percent adjustment to the standardized amount. This is a permanent adjustment to the payment rates.

h. Proposed Outlier Payments

Section 1886(d)(5)(A) of the Act provides for payments in addition to the basic prospective payments for “outlier” cases involving extraordinarily high costs. To qualify for outlier payments, a case must have costs greater than the sum of the prospective payment rate for the MS–DRG, any IME and DSH payments, uncompensated care payments, any new technology add-on payments, and the “outlier threshold” or “fixed-loss” amount (a dollar amount by which the costs of a case must exceed payments in order to qualify for an outlier payment). We refer to the sum of the prospective payment rate for the MS–DRG, any IME and DSH payments, uncompensated care payments, any new technology add-on payments, and the outlier threshold as the "outlier" cases as discussed in the previous sections.

In accordance with section 1886(d)(5)(A)(iv) of the Act, outlier payments for any year are projected to be not less than 5 percent nor more than 6 percent of total operating DRG payments (which does not include IME and DSH payments) plus outlier payments. When setting the outlier threshold, we compute the percent target by dividing the total operating outlier payments by the total operating DRG payments plus outlier payments. As discussed in the next section, for FY 2022, we are proposing to incorporate an estimate of outlier reconciliation when setting the outlier threshold. We do not include any other payments such as IME and DSH within the outlier target amount. Therefore, it is not necessary to include Medicare Advantage IME payments in the outlier threshold calculation. Section 1886(d)(3)(B) of the Act requires the Secretary to reduce the average standardized amount by a factor to account for the estimated proportion of total DRG payments made to outlier cases. More information on outlier payments may be found on the CMS website at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/outlier.htm.
(1) Proposed Methodology To Incorporate an Estimate of Outlier Reconciliation in the FY 2022 Outlier Fixed-Loss Cost Threshold

The regulations in 42 CFR 412.84(i)(4) state that any outlier reconciliation at cost report settlement will be based on operating and capital cost-to-charge ratios (CCRs) calculated based on a ratio of costs to charges computed from the relevant cost report and charge data determined at the time the cost report coinciding with the discharge is settled. We have instructed MACs to identify for CMS any instances where: (1) A hospital's actual CCR for the cost reporting period fluctuates plus or minus 10 percentage points compared to the interim CCR used to calculate outlier payments when a bill is processed; and (2) the total outlier payments for the hospital exceeded $500,000.00 for that cost reporting period. If we determine that a hospital's outlier payments should be reconciled, we reconcile both operating and capital outlier payments. We refer readers to section 20.1.2.5 of Chapter 3 of the Medicare Claims Processing Manual (available on the CMS website at: https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/clin104c03.pdf) for complete details regarding outlier reconciliation. The regulation at §412.84(m) further states that at the time of any outlier reconciliation under §412.84(i)(4), outlier payments may be adjusted to account for the time value of any underpayments. Section 20.1.2.6 of Chapter 3 of the Medicare Claims Processing Manual contains instructions on how to assess the time value of money for reconciled amounts.

If the operating CCR of a hospital subject to outlier reconciliation is lower at cost report settlement compared to the operating CCR used for payment, the hospital would owe CMS money because it received an outlier overpayment at the time of claim payment. Conversely, if the operating CCR increases at cost report settlement compared to the operating CCR used for payment, CMS would owe the hospital money because the hospital received an outlier underpayment.

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42623 through 42635), we finalized a methodology to incorporate outlier reconciliation in the FY 2020 outlier fixed loss cost threshold. As discussed in the FY 2020 IPPS/LTCH PPS proposed rule (84 FR 19592), we stated that rather than trying to predict which hospital(s) may be subject to outlier reconciliation, we believe a methodology that incorporates an estimate of outlier reconciliation dollars based on actual outlier reconciliation amounts reported in historical cost reports would be a more feasible approach and provide a better estimate and predictor of outlier reconciliation for the upcoming fiscal year. We also stated that we believe the methodology addresses stakeholder’s concerns on the impact of outlier reconciliation on the modeling of the outlier threshold. For a detailed discussion of additional background regarding outlier reconciliation, we refer the reader to the FY 2020 IPPS/LTCH PPS final rule.

(a) Incorporating a Proposed Projection of Outlier Payment Reconciliations for the FY 2022 Outlier Threshold Calculation

Based on the methodology finalized in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42623 through 42625), for FY 2022, we are proposing to continue to incorporate outlier reconciliation in the FY 2022 outlier fixed loss cost threshold.

As discussed in the FY 2020 IPPS/LTCH PPS final rule, for FY 2020, we used the historical outlier reconciliation amounts from the FY 2014 cost reports (cost reports with a begin date on or after October 1, 2013, and on or before September 30, 2014), which we believed would provide the most recent and complete available data to project the estimate of outlier reconciliation. We refer the reader to the FY 2020 IPPS/LTCH PPS final rule (84 FR 42623 through 42625) for a discussion on the use of the FY 2014 cost report data for purposes of projecting outlier payment reconciliations for the FY 2020 outlier threshold calculation. For FY 2022, we applied the same methodology finalized in FY 2020, using the historical outlier reconciliation amounts from the FY 2015 cost reports (cost reports with a begin date on or after October 1, 2014, and on or before September 30, 2015).

Similar to the FY 2021 methodology, in this proposed rule, we are proposing to determine a projection of outlier payment reconciliations for FY 2022 outlier threshold calculation, by advancing the methodology by 1 year. Specifically, we are proposing to use FY 2016 cost reports (cost reports with a begin date on or after October 1, 2015, and on or before September 30, 2016).

For FY 2022, we are proposing to use the same methodology from FY 2020 to incorporate a projection of operating outlier payment reconciliations for FY 2022 outlier threshold calculation. The following steps are the same as those finalized in the FY 2020 final rule but with updated data for FY 2022:

**Step 1.**—Use the Federal FY 2016 cost reports for hospitals paid under IPPS from the most recent publicly available quarterly HCRIS extract available at the time of development of the proposed and final rules, and exclude sole community hospitals (SCBs) that were paid under their hospital-specific rate (that is, if Worksheet E, Part A, Line 48 is greater than Line 47). We note that when there are multiple columns available for the lines of the cost report described in the following steps and the provider was paid under the IPPS for that period(s) of the cost report, then we believe it is appropriate to use multiple columns to fully represent the relevant IPPS payment amounts, consistent with our methodology for the FY 2020 final rule.

**Step 2.**—Calculate the aggregate amount of historical total of operating outlier reconciliation payments (Worksheet E, Part A, Line 2.01) using the Federal FY 2016 cost reports from Step 1.

**Step 3.**—Calculate the aggregate amount of total Federal operating payments using the Federal FY 2016 cost reports from Step 1. The total Federal operating payments consist of the Federal payments (Worksheet E, Part A, Line 1.01 and Line 1.02, plus Line 1.03 and Line 1.04), outlier payments (Worksheet E, Part A, Line 2 and Line 2.02), and the outlier reconciliation payments (Worksheet E, Part A, Line 2.01). We note that a negative amount on Worksheet E, Part A, Line 2.01 for outlier reconciliation indicates an amount that was owed by the hospital, and a positive amount indicates this amount was paid to the hospital.

**Step 4.**—Divide the amount from Step 2 by the amount from Step 3 and multiply the resulting amount by 10 to project the percentage of total operating outlier reconciliation dollars to total Federal operating payments for FY 2016. This percentage amount would be used to adjust the outlier target for FY 2022 as described in Step 5.

**Step 5.**—Because the outlier reconciliation dollars are only available on the cost reports, and not in the Medicare claims data in the MedPAR file used to model the outlier threshold, we are proposing to target 5.1 percent minus the percent determined in Step 4 in determining the outlier threshold.

Using the FY 2016 cost reports based on the December 2020 HCRIS extract, because the aggregate outlier reconciliation dollars from Step 2 are negative, we are targeting an amount higher than 5.1 percent for outlier payments for FY 2022 under our proposed methodology.

For this FY 2022 proposed rule, we used the December 2020 HCRIS extract of the cost report data to calculate the proposed percentage adjustment for outlier reconciliation. For the FY 2022 final rule, we propose to use the latest quarterly HCRIS extract that is publically available at the time of the development of that rule which, for FY 2022, would be the March 2021 extract.

Similar to the FY 2021 final rule, we may also consider the use of more recent data that may become available for purposes of projecting the estimate of operating outlier reconciliation used in the calculation of the final FY 2022 outlier threshold.

For this FY 2022 proposed rule, based on the December 2020 HCRIS, 2 hospitals had an outlier reconciliation amount recorded on Worksheet E, Part A, Line 2.01 for total operating outlier reconciliation dollars of negative $12,140,344 (Step 2). The total Federal operating payments based on the December 2020 HCRIS was $88,239,764,644 (Step 3). The ratio (Step 4) is a negative 0.013758 percent, which, when rounded to the second digit, is –0.01 percent. Therefore, for FY 2022, we are proposing to incorporate a projection of outlier reconciliation dollars by targeting an outlier threshold at 5.11 percent (5.1 percent – (–0.01 percent)).

When the percentage of operating outlier reconciliation dollars to total Federal operating payments rounds to a negative value (that is, when the aggregate amount of outlier reconciliation as a percent of total operating payments rounds to a negative percent), the effect is a decrease to the outlier threshold compared to an outlier threshold that is calculated without including this estimate of operating outlier reconciliation dollars. In section II.A.4.1.(2) of the Addendum to this proposed rule, we provide the FY 2022 outlier threshold as calculated.
for this proposed rule both with and without including this proposed percentage estimate of operating outlier reconciliation.

As explained in the FY 2020 IPPS/LTCH PPS final rule, we would continue to use a 5.1 percent target (or an outlier offset factor of 0.949) for the outlier offset to the standardized amount. In the past, the outlier offset was six decimals because we targeted and set the threshold at 5.1 percent by adjusting the standardized amount by the outlier offset until operating outlier payments divided by Federal payments plus operating outlier payments equaled approximately 5.1 percent (this approximation resulted in an offset beyond three decimals). However, under our methodology, we believe a three decimal offset of 0.949 reflecting 5.1 percent is appropriate rather than the unrounded six decimal offset that we have calculated for prior fiscal years. Specifically, as discussed in section II.A.5. of this Addendum, we are proposing to determine an outlier adjustment by applying a factor to the standardized amount that accounts for the projected proportion of total estimated FY 2022 operating Federal payments paid as outliers. Our proposed modification to the outlier threshold methodology is designed to adjust the total estimated outlier payments for FY 2022 by incorporating the projection of negative outlier reconciliation. That is, under this proposal, total estimated outlier payments for FY 2022 would be the sum of the estimated operating outlier payments based on the claims data from the outlier model and the estimated FY 2022 total operating outlier reconciliation dollars. We believe the proposed methodology would more accurately estimate the outlier adjustment to the standardized amount by increasing the accuracy of the calculation of the total estimated FY 2022 operating Federal payments paid as outliers. In other words, the net effect of our outlier proposal to incorporate a projection for outlier reconciliation dollars into the threshold methodology would be that FY 2022 outlier payments (which include the proposed estimated recoupment percentage for FY 2022 of 0.01 percent) would be 5.1 percent of total operating Federal payments plus total outlier payments. Therefore, the proposed operating outlier offset to the standardized amount is 0.949 (1 − 0.051).

We are inviting public comment on our proposed methodology for projecting an estimate of outlier reconciliation and incorporate it into the modeling for the fixed-loss cost outlier threshold for FY 2022.

(b) Proposed Reduction to the FY 2021 Capital Standard Federal Rate by an Adjustment Factor to Account for the Projected Proportion of Capital IPPS Payments Paid as Outliers

We establish an outlier threshold that is applicable to hospital inpatient operating costs and hospital inpatient capital related costs (58 FR 46548). Similar to the calculation of the adjustment to the standardized amount to account for the projected proportion of operating payments paid as outlier payments, as discussed in greater detail in section III.A.2. of this Addendum, we are proposing to reduce the FY 2022 capital standard Federal rate by an adjustment factor to account for the projected proportion of capital IPPS payments paid as outliers. The regulations in 42 CFR 412.84(i)(4) state that any outlier reconciliation payment would be based on operating and capital CCRs calculated based on a ratio of costs to charges computed from the relevant cost report and charge data determined at the time the cost report coinciding with the discharge is settled. As such, the reconciliation also applies to capital outlier payments.

For FY 2022, we are proposing to use the same methodology from FY 2020 to adjust the FY 2022 capital standard Federal rate by an adjustment factor to account for the projected proportion of capital IPPS payments paid as outliers. Similar to FY 2020, as part of our proposal for FY 2022 to incorporate into the outlier model the total outlier reconciliation dollars from the most recent and the most complete fiscal year cost report data to projecting an adjustment factor to account for the projected proportion of capital IPPS payments paid as outliers. To do so, we are proposing to use the following methodology, which generally parallels the proposed methodology to incorporate a projection of operating outlier reconciliation payments for the FY 2022 outlier threshold calculations.

Step 1.—Use the Federal FY 2016 cost reports for hospitals paid under the IPPS from the most recently publically available quarterly HCRRS extract available at the time of development of the proposed and final rules, and exclude SCHs that were paid under their hospital-specific rate (that is, if Worksheet E, Part A, Line 48 is greater than Line 47). We note that when there are multiple columns available for the lines of the cost report described in the following steps and the backlog is paid under the IPPS for that period(s) of the cost report, then we believe it is appropriate to use multiple columns to fully represent the relevant IPPS payment amounts, consistent with our methodology for the FY 2020 final rule. We used the December 2020 HCRIS extract for this proposed rule and expect to use the March 2020 HCRIS extract for the FY 2022 final rule. Similar to the FY 2020 final rule, we may also consider the use of more recent data that may become available for purposes of projecting the estimate of capital outlier reconciliation used in the calculation of the final FY 2022 adjustment to the FY 2022 capital standard Federal rate.

Step 2.—Calculate the aggregate amount of the historical total of capital outlier reconciliation dollars (Worksheet E, Part A, Line 93 for capital outlier payments) for the Federal FY 2016 cost reports from Step 1.

Step 3.—Calculate the aggregate amount of total capital Federal payments using the Federal FY 2016 cost reports from Step 1. The total capital Federal payments consist of the capital DRC payments, including capital indirect medical education (IME) and capital disproportionate share hospital (DHS) payments (Worksheet E, Part A, Line 50, Column 1) and the capital outlier reconciliation payments (Worksheet E, Part A, Line 93, Column 1). We note that a negative amount on Worksheet E, Part A, Line 93 for capital outlier reconciliation indicates an amount that was owed by the hospital, and a positive amount indicates this amount was paid to the hospital.

Step 4.—Divide the amount from Step 2 by the amount from Step 3 and multiply the resulting amount by 100 to produce the percentage of total capital outlier reconciliation dollars to total capital Federal payments for FY 2016. This percentage amount would be used to adjust the estimate of capital outlier payments for FY 2022 as described in Step 5.

Step 5.—Because the capital outlier reconciliation dollars are only available on the cost reports, and not in the specific Medicare claims data in the MedPAR file used to estimate outlier payments, we are proposing that the estimate of capital outlier payments for FY 2022 would be determined by adding the percentage in Step 4 to the estimated percentage of capital outlier payments otherwise determined using the shared threshold that is applicable to both hospital inpatient operating costs and hospital inpatient capital-related costs. (We note that this percentage is added for capital outlier payments but subtracted in the analogous step for operating outlier payments. We have a unified outlier payment methodology that uses a shared threshold to identify outlier cases for operating and capital payments. The difference stems from the fact that operating outlier payments are determined by first setting a “target” percentage of operating outlier payments relative to aggregate operating payments which produces the outlier threshold. Once the shared threshold is set, it is used to estimate the percentage of capital outlier payments to total capital payments based on that threshold. Because the threshold is already set based on the operating target, we do not have to adjust the threshold. Rather, to produce the operating target), we adjust the percentage of capital outlier to total capital payments to account for the estimated effect of capital outlier reconciliation payments. This percentage is adjusted by adding the capital outlier reconciliation percentage from Step 4 to the estimate of the percentage of capital outlier payments to total capital payments based on the shared threshold.) Because the aggregate capital outlier reconciliation dollars from Step 2 are negative, the estimate of capital outlier payments for FY 2022 under our proposed methodology would be lower than the percentage of capital outlier payments otherwise determined using the shared outlier threshold.

Similarly, for this FY 2022 proposed rule, we used the December 2020 HCRIS extract of the cost report data to calculate the proposed percentage adjustment for outlier reconciliation. For the FY 2022 final rule, we are proposing to use the latest quarterly HCRIS extract that is publically available at the time of the development of that rule which, for FY 2022, would be the March 2021 extract. As previously noted, we may
also consider the use of more recent data that may become available for purposes of projecting the estimate of capital outlier reconciliation used in the calculation of the final FY 2022 adjustment to the FY 2022 capital standard Federal rate. For this FY 2022 proposed rule, the estimated percentage of FY 2022 capital outlier payments otherwise determined using the shared outlier threshold is 5.34 percent (estimated capital outlier payments of $431,821,043 divided by (estimated capital outlier payments of $431,821,043 plus the estimated Federal payment of $7,651,022,484)). Based on the December 2020 HCRIS, 12 hospitals had an outlier reconciliation amount recorded on Worksheet E, Part A, Line 93 for total capital outlier reconciliation dollars of negative $915,421 (Step 2). The total Federal capital payments based on the December 2020 HCRIS was $7,961,217,741 (Step 3) which results in a ratio (Step 4) of ~0.01 percent. Therefore, for FY 2022, taking into account projected capital outlier reconciliation payments under our proposed methodology would increase the estimated percentage of FY 2022 aggregate capital payments by 0.01 percent.

As discussed in section III.A.2. of this Addendum, we are proposing to incorporate the capital outlier reconciliation dollars from Step 5 when applying the outlier adjustment factor in determining the capital Federal rate based on the estimated percentage of capital outlier payments to total capital Federal rate payments for FY 2022.

We are inviting public comment on our proposed methodology for projecting an estimate of capital outlier reconciliation and incorporating that estimate into the modeling of the estimate of FY 2022 capital outlier payments for purposes of determining the capital outlier adjustment factor.  

(2) Proposed FY 2022 Outlier Fixed-Loss Cost Threshold

In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50977 through 50983), in response to public comments on the FY 2013 IPPS/LTCH PPS proposed rule, we made changes to our methodology for projecting the outlier fixed-loss cost threshold for FY 2014. We refer readers to the FY 2014 IPPS/LTCH PPS final rule for a complete discussion on our methodology of identifying and adding the total Medicare Advantage IME payment amount to the budget neutrality adjustments.

In order to ensure that we capture only FFS claims, we included claims with a “claim Type” of “7” (which is a field on the MedPAR file that indicates a claim is an FFS claim).

In order to further ensure that we capture only FFS claims, we excluded claims with a “GHOPAID” indicator of 1 (which is a field on the MedPAR file of FY 2020 that indicates a claim is a GHOPAID claim).

Because this payment simulation uses the proposed FY 2022 relative weights, consistent with our proposal discussed in section IV.I. of the preamble to this proposed rule, we applied the proposed adjustor for certain cases that group to MS–DRG 018 in calculating the FY 2022 relative weights and for purposes of budget neutrality and outlier simulations.

Our general methodology to inflate the charges computes the 1-year average annual rate-of-change in charges which is then applied twice to inflate the charges on the MedPAR claims by 2 years since we typically use claims data for the fiscal year that is 2 years prior to the upcoming fiscal year. However, for this FY 2022 proposed rule, we are proposing to use the FY 2019 MedPAR data claims, which is 3 years prior to FY 2022. Therefore, we are proposing to inflate the charges on the MedPAR claims data by 3 years.

In the FY 2020 IPPS/LTCH PPS final rule (84 FR 42627), we modified our charge inflation methodology. We stated that we believe balancing our preference to use the latest available data from the MedPAR files and stakeholders’ concerns about being able to use publicly available MedPAR files to review the charge inflation methodology was achieved by modifying our methodology to use the publicly available Federal fiscal year data (that is, for FY 2020, we used the charge data from Fiscal years 2017 and 2018) rather than the most recent data available to CMS which, under our prior methodology, was based on calendar year data. We refer the reader to the FY 2020 IPPS/LTCH PPS final rule for a complete discussion regarding this change. For the same reasons discussed in that rulemaking, and consistent with our proposal to use the FY 2019 MedPAR for FY 2022 ratesetting, for FY 2022, we are proposing to use the same methodology as FY 2020, and based on the same data used in the FY 2021 IPPS/LTCH PPS final rule to determine the charge inflation factor for this proposed rule. That is, for FY 2022, we are proposing to use the MedPAR files for the two most recent available Federal fiscal year time periods prior to the COVID–19 PHE to calculate the charge inflation factor. Specifically, for this proposed rule we used the March 2019 MedPAR file of FY 2019 to FY 2020 and the March 2020 MedPAR file of FY 2019 (October 1, 2018 to September 30, 2019) charge data (released for the FY 2020 IPPS/LTCH PPS final rule) and the March 2020 MedPAR file of FY 2019 (October 1, 2018 to September 30, 2019) charge data (released for the FY 2021 IPPS/ LTCH PPS final rule) to compute the proposed charge inflation factor. We propose that for the FY 2022 IPPS/LTCH PPS final rule, we would continue to use the charge inflation estimate from the FY 2021 IPPS/ LTCH PPS final rule. In addition, we are soliciting comments on the alternative approach of using the same data we would ordinarily use for purposes of FY 2022 ratesetting, as discussed in section I.F. of this proposed rule, and note that under this alternative approach, if finalized, we would anticipate using more recently updated data as the purposes of the FY 2022 IPPS/LTCH PPS final rule. Under this proposed methodology, to compute the 1-year average annual rate-of-change in charges per case for FY 2022, we compared the average covered charge per case of $61,578.82 ($584,618,863,834/9,493,830 cases) from October 1, 2017 through September 31, 2018, to the average
covered charge per case of $65,522.10 ($604,209,834,327/9,221,466 cases) from October 1, 2018 through September 31, 2019. This rate-of-change was 6.4 percent (1.06404) or 20.4 percent over three years. Because we are proposing to use the FY 2019 MedPAR for the FY 2022 ratesetting, we applied a factor of 20.4 percent (1.20469) over 3 years. The billed charges are obtained from the claim from the MedPAR file and inflated by the inflation factor specified previously.

In order to facilitate comments on the alternative approach discussed in section I.F of this proposed rule of using the same data that we would ordinarily use for purposes of FY 2022 ratesetting, and which we may consider finalizing for FY 2022 based on consideration of comments received, we are making available budget neutrality and other ratesetting adjustments, including the charge inflation factor, calculated under this alternative approach, which can be found on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS.

We include in the supplemental data file the following: Budget neutrality factors, charge inflation factor, the CCR adjustment factors, and outlier threshold based on this alternative approach.

Consistent with historical practice, if we were to finalize this alternative approach, we would use the most recent available data for the final rule, as appropriate.

As discussed previously, in this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to establish the FY 2022 outlier threshold using hospital CCRs from the March 2020 update of the Provider-Specific File (PSF), which is consistent with our proposed approach of not using data that may have been significantly impacted by the COVID–19 PHE. We are proposing to apply the following edits to providers’ CCRs in the PSF. We believe these edits are appropriate in order to accurately model the outlier threshold. We first search for Indian Health Service providers and those providers assigned the statewide average CCR from the current fiscal year. We then replace these CCRs with the average CCR for the upcoming fiscal year. We also assign the statewide average CCR (for the upcoming fiscal year) to those providers that have no value in the CCR field in the PSF or whose CCRs exceed the ceilings described later in this section (3.0 standard deviations from the mean of the log distribution of CCRs for all hospitals). We do not apply the adjustment factors described later in this section to hospitals assigned the statewide average CCR. For FY 2022, we are also proposing to continue to apply an adjustment factor to the CCRs to account for cost and charge inflation (as explained later in this section).

In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50979), we adopted a new methodology to adjust the CCRs. Specifically, we finalized a policy to compare the national average case-weighted operating and capital CCR from the most recent update of the PSF to the national average case-weighted operating and capital CCR from the same period of the prior year.

Ordinarily, for the proposed rule, we would use CCRs from the December 2020 update of the PSF and apply a proposed adjustment factor to adjust the CCRs from the December 2020 update of the PSF by comparing the percentage change in the national average case-weighted operating CCR and capital CCR from the December 2019 update of the PSF to the national average case-weighted operating CCR and capital CCR from the December 2020 PSF. However, as discussed previously, we believe the operating and capital CCRs in the December 2020 PSF may be significantly impacted by the PHE. Therefore, we are proposing to adjust the CCRs from the March 2020 update of the PSF (the latest update of the PSF prior to the PHE) by comparing the percentage change in the national average case-weighted operating CCR and capital CCR from the March 2019 update of the PSF to the national average case-weighted operating CCR and capital CCR from the March 2020 update of the PSF. We note that we used total transfer-adjusted cases from FY 2019 to determine the national average case-weighted CCR of the comparison. As stated in the FY 2014 IPPS/LTCH PPS final rule (78 FR 50979), we believe that it is appropriate to use the same case count on both sides of the comparison, because this will be the true percentage change in the average case-weighted operating and capital CCR from 1 year to the next without any effect from a change in case count on different sides of the comparison.

We used the same proposed methodology to adjust the capital CCRs. Specifically, we calculated a March 2019 operating national average case-weighted CCR of 0.254027 and a proposed March 2020 operating national average case-weighted CCR of 0.247545. We then calculated the percentage change between the two national operating case-weighted CCRs by subtracting the March 2019 operating national average case-weighted CCR from the March 2020 operating national average case-weighted CCR and then dividing the result by the March 2019 operating national average case-weighted CCR. This resulted in a one-year national operating CCR adjustment factor of 0.974495. Because we are proposing to use CCRs from the March 2020 update of the PSF for FY 2022, we calculated a two-year proposed national operating CCR adjustment by multiplying 0.974495 * 0.974495.

We used the same proposed methodology to adjust the capital CCRs. Specifically, we calculated a March 2019 capital national average case-weighted CCR of 0.019935 and a March 2020 capital national average case-weighted CCR of 0.02073. We then calculated the percentage change between the two capital national case-weighted CCRs by subtracting the March 2019 capital national average case-weighted CCR from the March 2020 capital national average case-weighted CCR and then dividing the result by the March 2019 capital national average case-weighted CCR. This resulted in a one-year national capital CCR adjustment factor of 0.96165. Because we were proposing to use CCRs from the March 2020 update of the PSF for FY 2022, we calculated a two-year proposed national capital CCR adjustment by multiplying 0.96165 * 0.96165.

As discussed in section I.F of this proposed rule and in section LO of Appendix A of this proposed rule, we are soliciting comments on an alternative approach of using the same data we would ordinarily use for purposes of FY 2022 ratesetting, which we may consider finalizing for FY 2022 based on consideration of comments received, and are making available supplemental data to facilitate comments on this alternative approach. As noted previously, we include in a supplemental data file the following: Budget neutrality factors, charge inflation factor, the CCR adjustment factors, and outlier threshold based on this alternative approach. Consistent with historical practice, if we were to finalize this alternative approach, we would use the most recent available data for the final rule, as appropriate.

For purposes of estimating the proposed outlier threshold for FY 2022, we used a wage index that reflects the policies associated with and included in the proposed rules previously described in the proposed rule and in section I.O of Appendix A of this proposed rule. This includes the proposed frontier floor adjustments in accordance with section 1032(a) of the Affordable Care Act, the proposed outlier threshold adjustment factor included in section 505 of Public Law 108–173, as well as incorporating the FY 2022 wage index adjustment for hospitals with a wage index value below the 25th percentile, where the increase in the wage index value for these hospitals would be equal to half the difference between the otherwise applicable final wage index value for a year for that hospital and the 25th percentile wage index value for that year across all hospitals. If we did not take the aforementioned into account, our estimate of total FY 2022 payments would be too low, and the proposed outlier threshold would be too high, such that estimated outlier payments would be less than our projected 5.1 percent of total payments (which includes outlier reconciliation). We note, given the recent enactment of section 9381 of Public Law 117–2 on March 11, 2021, there was not sufficient time available to incorporate the changes required by this statutory provision (which provides for the application of the imputed floor adjustment in a non-budget neutral manner beginning in FY 2022) into the calculation of the provider wage index for this proposed rule. We will include the imputed floor adjustment in the calculation of the provider wage index in the FY 2022 final rule.

As described in sections V.K. and IV.L., respectively, of the preamble of this proposed rule, sections 1886(q) and 1886(o) of the Act establish the Hospital Readmissions Reduction Program and the Hospital VBP Program, respectively. We do not believe that it is appropriate to include the proposed hospital VBP payment adjustments and the hospital reoperations payment adjustments in the proposed outlier threshold calculation or the proposed outlier offset to the standardized amount. Specifically, consistent with our definition of the base operating DRG standardized amount. Specifically, consistent with our definition of the base operating DRG standardized amount.
DRG payment amount (as opposed to using the base-operating DRG payment amount adjusted by the hospital readmissions payment adjustment and the hospital VBP payment adjustment). Consequently, we are proposing to exclude the estimated hospital VBP payments and the estimated hospital readmissions payment adjustments from the calculation of the proposed outlier fixed-loss cost threshold.

We note that, to the extent section 1886(r) of the Act modifies the DSH payment methodology under section 1886(d)(5)(F) of the Act, the uncompensated care payment under section 1886(e)(2) of the Act, like the empirically justified Medicare DSH payment under section 1886(e)(1) of the Act, may be considered an amount payable under section 1886(d)(5)(F) of the Act such that it would be reasonable to include the payment in the outlier determination under section 1886(d)(5)(A) of the Act. As we have done since the implementation of uncompensated care payments in FY 2014, for FY 2022, we are proposing to allocate an estimated per-discharge uncompensated care payment amount to all cases for the hospitals eligible to receive the uncompensated care payment amount in the calculation of the outlier fixed-loss cost threshold methodology. We continue to believe that allocating an eligible hospital’s estimated uncompensated care payment to all cases equally in the calculation of the outlier fixed-loss cost threshold would best approximate the amount we would pay in uncompensated care payment adjustments. However, when we make claim payments to a hospital eligible for such payments, we would be making estimated per-discharge uncompensated care payments to all cases equally. Furthermore, we continue to believe that using the estimated per-claim uncompensated care payment amount to determine outlier estimates provides predictability as to the amount of uncompensated care payments included in the calculation of outlier payments.

Therefore, consistent with the methodology used since FY 2014 to calculate the outlier fixed-loss cost threshold, for FY 2022, we are proposing to include estimated FY 2022 uncompensated care payments in the computation of the proposed outlier fixed-loss cost threshold. Specifically, we are proposing to use the estimated per-discharge uncompensated care payments to hospitals eligible for the uncompensated care payment for all cases in the calculation of the proposed outlier fixed-loss cost threshold methodology.

Using this methodology, we used the formula described in section I.C.1. of this Addendum to simulate and calculate the Federal payment rate and outlier payments for all claims. In addition, as described in the earlier section to this Addendum, we are proposing to incorporate an estimate of FY 2022 outlier reconciliation in the methodology for determining the outlier threshold. As noted previously, for this FY 2022 proposed rule, the ratio of outlier reconciliation dollars to total Federal Payments (Step 4) is a negative 0.013758 percent, which, when rounded to the second digit, is -0.01 percent. Therefore, for FY 2022, we are proposing to incorporate a projection of outlier reconciliation dollars by targeting an outlier threshold at 5.11 percent (5.1 percent - (-0.01 percent)). Under this proposed approach, we determined a threshold of $30,967 and calculated total outlier payments of $3,081,824,613 and total operating Federal payments of $94,365,941,593. We then divided total outlier payments by total operating Federal payments plus total outlier payments and determined that this threshold matched with the 5.11 percent target, which reflects our proposal to incorporate an estimate of outlier reconciliation in the determination of the outlier threshold (as discussed in more detail in the previous section of this Addendum). We note that, if calculated without applying our proposed methodology for incorporating an estimate of outlier reconciliation in the determination of the outlier threshold, the proposed threshold would be $31,027. We are proposing an outlier fixed-loss cost threshold for FY 2022 equal to the prospective payment rate for the MS–DRG, plus any IME, empirically justified Medicare DSH payments, estimated uncompensated care payment, and any add-on payments for new technology, plus $30,967. As discussed further in section I.A of this proposed rule, we note that the estimate of the outlier threshold using the FY 2020 MedPAR file is $36,483.

(3) Other Proposed Changes Concerning Outliers

As stated in the FY 1994 IPPS final rule (58 FR 46348), we establish an outlier threshold that is applicable to both hospital inpatient operating costs and hospital inpatient capital-related costs. When we modeled the combined operating and capital outlier payments, we found that using a common threshold resulted in a higher percentage of outlier payments for capital-related costs than for operating costs. We project that the threshold for FY 2022 (which reflects our methodology to incorporate an estimate of operating outlier reconciliation) would result in outlier payments that would equal 5.1 percent of operating DRG payments and we estimate that capital outlier payments would equal 5.34 percent of capital payments based on the Federal rate (which reflects our methodology discussed previously to incorporate an estimate of capital outlier reconciliation).

In accordance with section 1886(d)(3)(B) of the Act and as discussed previously, we are proposing to reduce the FY 2022 standardized amount by 5.1 percent to account for the projected proportion of payments paid as outliers.

The proposed outlier adjustment factors that would be applied to the operating standardized amount and capital Federal rate based on the proposed FY 2022 outlier threshold are as follows:

<table>
<thead>
<tr>
<th>Operating Standardized Amounts</th>
<th>Capital Federal Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td>0.949</td>
</tr>
</tbody>
</table>

*The adjustment factor for the capital Federal rate includes an adjustment to the estimated percentage of FY 2022 capital outlier payments for capital outlier reconciliation, as discussed previously and in section III. A. 2 in the Addendum of this proposed rule.

We are proposing to apply the outlier adjustment factors to the FY 2022 payment rates to reflect the updated effects of the FY 2020 outlier adjustment factors on the standardized amount.

To determine whether a case qualifies for outlier payments, we currently apply hospital-specific CCRs to the total covered charges for the case. Estimated operating and capital costs for the case are calculated separately by applying separate operating and capital CCRs. These costs are then combined and compared with the outlier fixed-loss cost threshold.

Under our current policy at § 412.84, we calculate operating and capital CCR ceilings and assign a statewide average CCR for hospitals whose CCRs exceed 3.0 standard deviations from the mean of the log distribution of CCRs for all hospitals. Based on this calculation, for which the MAC computes operating CCRs greater than 1.142 or capital CCRs greater than 0.135, or hospitals for which the MAC is unable to calculate a CCR (as described under § 412.84(i)(3) of our regulations), statewide average CCRs were used to determine whether a hospital qualifies for outlier payments.

Table 8A listed in section VI. of this Addendum (and available via the internet on the CMS website) contains the proposed statewide average operating CCRs for urban hospitals and for rural hospitals for which the MAC is unable to compute a hospital-specific CCR within the range previously specified. These statewide average ratios would be effective for discharges occurring on or after October 1, 2021 and would replace the statewide average ratios from the prior fiscal year. Table 8B listed in section VI. of this Addendum (and available via the internet on the CMS website) contains the comparable proposed statewide average capital CCRs. As previously stated, the proposed CCRs in Tables 8A and 8B would be used during FY 2022 when hospital-specific CCRs based on the latest settled cost report either are not available or are outside the range noted previously. Table 8C listed in section VI. of this Addendum (and available via the internet on the CMS website) contains the proposed statewide average total CCRs used under the LITCH PPS as discussed in section V. of this Addendum.
We finally note that section 20.1.2 of chapter three of the Medicare Claims Processing Manual (on the internet at https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/clm104c03.pdf) covers an array of topics, including CCRs, reconciliation, and the time value of money. We encourage hospitals that are assigned the statewide average operating and/or capital CCRs to work with their MAC on a possible alternative operating and/or capital CCR as explained in the manual. Use of an alternative CCR developed by the hospital in conjunction with the MAC can avoid possible overpayments or underpayments at cost report settlement, thereby ensuring better accuracy when making outlier payments and negating the need for outlier reconciliation. We also note that a hospital may request an alternative operating or capital CCR by submitting a written request at the hospital’s discretion. We also note that, because the MedPAR claims acquisition budget neutrality factors for the lowest quartile hospital policy, described previously. Additionally, for FY 2022 we have applied the proposed standardized amounts reflecting the proposed applicable percentage increases for FY 2022.

The proposed labor-related and nonlabor-related portions of the national average standardized amounts for Puerto Rico hospitals for FY 2022 are set forth in Table 1C listed and published in section VI. of this Addendum (and available via the internet on the CMS website). Similarly, section 1886(d)(9)(C)(iv) of the Act, as amended by section 403(b) of Public Law 108–173, provides that the labor-related share for hospitals located in Puerto Rico be 62 percent, unless the application of that percentage would result in lower payments to the hospital.

The following table illustrates the changes from the FY 2021 national standardized amounts to the proposed FY 2022 national standardized amounts. The second through fifth columns display the changes from the FY 2021 standardized amounts for each proposed applicable FY 2022 standardized amount. The first row of the table shows the updated (through FY 2021) average standardized amount after restoring the FY 2021 offsets for outlier payments, geographic recategorization, rural demonstration, lowest quartile, and transition budget neutrality. The MS–DRG recategorization and recalibration, wage index, and stem cell acquisition budget neutrality factors are cumulative. Accordingly, those FY 2021 adjustment factors have not been removed from the base rate in the following table. Additionally, for FY 2022 we have applied the budget neutrality factors for the lowest quartile hospital policy, described previously.

We note that, because the MedPAR claims

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.

We believe that an important goal of a PPS is predictability. Therefore, we believe that the fixed-loss outlier threshold should be projected based on the best available historical data and should not be adjusted retroactively. A retroactive change to the fixed-loss outlier threshold would affect all hospitals subject to the IPPS, thereby undercutting the predictability of the system as a whole.

We note that, because the MedPAR claims data for the entire FY 2021 period would not be available until after September 30, 2021, we are unable to provide an estimate of actual outlier payments for FY 2021. Based on the medPAR claims data available to us, we estimate that the labor-related share for hospitals subject to the IPPS, thereby decreasing the predictability of the system as a whole.
## CHANGES FROM FY 2021 STANDARDIZED AMOUNTS TO THE PROPOSED FY 2022 STANDARDIZED AMOUNTS

<table>
<thead>
<tr>
<th>Hospital Submitted Quality Data and is a Meaningful EHR User</th>
<th>Hospital Submitted Quality Data and is NOT a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is NOT a Meaningful EHR User</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FY 2022 Base Rate after removing:</strong></td>
<td><strong>FY 2022 Base Rate after removing:</strong></td>
<td><strong>FY 2022 Base Rate after removing:</strong></td>
<td><strong>FY 2022 Base Rate after removing:</strong></td>
</tr>
<tr>
<td>1. FY 2021 Geographic Reclassification Budget Neutrality (0.998616)</td>
<td>If Wage Index is Greater Than 1.0000: Labor (67.6%): $4,319.35 Nonlabor (32.4%): $2,070.22</td>
<td>If Wage Index is Greater Than 1.0000: Labor (67.6%): $4,319.35 Nonlabor (32.4%): $2,070.22</td>
<td>If Wage Index is Greater Than 1.0000: Labor (67.6%): $4,319.35 Nonlabor (32.4%): $2,070.22</td>
</tr>
<tr>
<td>2. FY 2021 Operating Outlier Offset (0.949)</td>
<td>If Wage Index is Greater Than 1.0000: Labor (67.6%): $4,319.35 Nonlabor (32.4%): $2,070.22</td>
<td>If Wage Index is Greater Than 1.0000: Labor (67.6%): $4,319.35 Nonlabor (32.4%): $2,070.22</td>
<td>If Wage Index is Greater Than 1.0000: Labor (67.6%): $4,319.35 Nonlabor (32.4%): $2,070.22</td>
</tr>
<tr>
<td>3. FY 2021 Rural Demonstration Budget Neutrality Factor (0.998626)</td>
<td>If Wage Index is Less Than or Equal to 1.0000: Labor (62%): $3,961.53 Nonlabor (38%): $2,428.04</td>
<td>If Wage Index is Less Than or Equal to 1.0000: Labor (62%): $3,961.53 Nonlabor (38%): $2,428.04</td>
<td>If Wage Index is Less Than or Equal to 1.0000: Labor (62%): $3,961.53 Nonlabor (38%): $2,428.04</td>
</tr>
<tr>
<td>4. FY 2021 Lowest Quartile Budget Neutrality Factor (0.997977)</td>
<td>Proposed FY 2022 Update Factor 1.023</td>
<td>Proposed FY 2022 Update Factor 1.023</td>
<td>Proposed FY 2022 Update Factor 1.023</td>
</tr>
<tr>
<td>5. FY 2021 Transition Budget Neutrality Factor (0.998651)</td>
<td>Proposed FY 2022 Update Factor 1.023</td>
<td>Proposed FY 2022 Update Factor 1.023</td>
<td>Proposed FY 2022 Update Factor 1.023</td>
</tr>
<tr>
<td>Proposed FY 2022 Wage Index Budget Neutrality Factor 1.000277</td>
<td>1.000277</td>
<td>1.000277</td>
<td>1.000277</td>
</tr>
<tr>
<td>Proposed FY 2022 Reclassification Budget Neutrality Factor 0.987018</td>
<td>0.987018</td>
<td>0.987018</td>
<td>0.987018</td>
</tr>
<tr>
<td>Proposed FY 2022 Rural Demonstration Budget Neutrality Factor 0.999412</td>
<td>0.999412</td>
<td>0.999412</td>
<td>0.999412</td>
</tr>
<tr>
<td>Proposed FY 2022 Lowest Quartile Budget Neutrality Factor 0.998108</td>
<td>0.998108</td>
<td>0.998108</td>
<td>0.998108</td>
</tr>
<tr>
<td>Proposed FY 2022 Operating Outlier Factor 0.949</td>
<td>0.949</td>
<td>0.949</td>
<td>0.949</td>
</tr>
<tr>
<td>Adjustment for FY 2022 Required under Section 414 of Pub. L. 114-10 (MACRA) 1.005</td>
<td>1.005</td>
<td>1.005</td>
<td>1.005</td>
</tr>
<tr>
<td><strong>Proposed National Standardized Amount for FY 2022 If Wage Index is Greater Than 1.0000; Labor/Non-Labor Share Percentage (67.6/32.4)</strong> $4,150.84</td>
<td>$4,074.76</td>
<td>$4,125.48</td>
<td>$4,049.40</td>
</tr>
<tr>
<td><strong>Proposed National Standardized Amount for FY 2022 If Wage Index is Less Than or Equal to 1.0000; Labor/Non-Labor Share Percentage (62/38)</strong> $3,806.98</td>
<td>$3,737.21</td>
<td>$3,783.72</td>
<td>$3,713.94</td>
</tr>
<tr>
<td><strong>Proposed National Standardized Amount for FY 2022 If Wage Index is Less Than or Equal to 1.0000; Labor/Non-Labor Share Percentage (62/38)</strong> $3,806.98</td>
<td>$3,737.21</td>
<td>$3,783.72</td>
<td>$3,713.94</td>
</tr>
<tr>
<td><strong>Proposed National Standardized Amount for FY 2022 If Wage Index is Less Than or Equal to 1.0000; Labor/Non-Labor Share Percentage (62/38)</strong> $3,806.98</td>
<td>$3,737.21</td>
<td>$3,783.72</td>
<td>$3,713.94</td>
</tr>
</tbody>
</table>
B. Proposed Adjustments for Area Wage Levels and Cost-of-Living

Tables 1A through 1C, as published in section VI of this Addendum (and available via the internet on the CMS website), contain the proposed labor related and -nonlabor related shares that we are proposing to use to calculate the prospective payment rates for hospitals located in the 50 States, the District of Columbia, and Puerto Rico for FY 2022. This section addresses two types of adjustments to the standardized amounts that are made in determining the prospective payment rates as described in this Addendum.

1. Proposed Adjustment for Area Wage Levels

Sections 1886(d)(3)(E) and 1886(d)(9)(C)(iv) of the Act require that we make an adjustment to the labor-related portion of the national prospective payment rate to account for area differences in hospital wage levels. This adjustment is made by multiplying the labor-related portion of the standardized amounts by the appropriate wage index for the area in which the hospital is located. For FY 2022, as discussed in section IV.B.3. of the preamble of this proposed rule, we are proposing to apply a labor-related share of 67.6 percent for the national standardized amounts for all IPPS hospitals (including hospitals in Puerto Rico) that have a wage index value that is greater than 1.0000. Consistent with section 1886(d)(3)(E) of the Act, we are proposing to apply the wage index to a labor-related share of 62 percent of the national standardized amount for all IPPS hospitals (including hospitals in Puerto Rico) whose wage index values are less than or equal to 1.0000. In section III. of the preamble of this proposed rule, we discuss the data and methodology for the FY 2022 wage index.

2. Proposed Adjustment for Cost-of-Living in Alaska and Hawaii

Section 1886(d)(5)(H) of the Act provides discretionary authority to the Secretary to make adjustments as the Secretary deems appropriate to take into account the unique circumstances of hospitals located in Alaska and Hawaii. Higher labor-related costs for these two States are taken into account in the adjustment for area wages described previously. To account for higher nonlabor-related costs for these two States, we multiply the nonlabor-related portion of the standardized amount for hospitals in Alaska and Hawaii by an adjustment factor. For FY 2011 and in prior fiscal years, we used the most recent cost-of-living adjustment (COLA) factors obtained from the U.S. Office of Personnel Management (OPM) website at https://www.opm.gov/policy-data-overview/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates to update this nonlabor-related portion.

In the FY 2012 IPPS/LTCH PPS final rule (76 FR 51797), we explained that sections 1911 through 1919 of the Nonforeign Area Retirement Equity Assurance Act, as contained in subtitle B of title XIX of the National Defense Authorization Act (NDAA) for Fiscal Year 2010 (Pub. L. 111–84, October 28, 2009), transitions the Alaska and Hawaii COLAs to locality pay. We finalized that, for FY 2012, as OPM transitioned away from COLAs, we would continue to use the same “frozen” COLA factors (published by OPM) that we used in FY 2011 (which were based on OPM’s 2009 COLA factors) to adjust the nonlabor-related portion of the standardized amount for hospitals located in Alaska and Hawaii. We refer readers to the FY 2012 IPPS/LTCH PPS final rule for a more detailed discussion of our rationale for continuing to use the frozen COLAs in FY 2012.

In the FY 2013 IPPS/LTCH PPS final rule (77 FR 53700 and 53701), for FY 2013, we continued to use the same COLA factors that were used to adjust payments in FY 2012 (as originally used to adjust payments in FY 2011, which were based on OPM’s 2009 COLA factors). We also established a methodology to update the COLA factors published by OPM every 4 years (at the same time as the labor-related share of the IPPS market basket), beginning in FY 2014. We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 28145 and 28146) for a detailed description of this methodology. For FY 2014, we updated the COLA factors for Alaska and Hawaii using OPM for 2009 using the methodology finalized in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53700 and 53701). In the FY 2018 IPPS/LTCH PPS final rule, we again updated the COLA factors using this same methodology (82 FR 38530).

For FY 2022, we are proposing to update the 2009 OPM COLA factors for Alaska and Hawaii by multiplying the nonlabor-related portion of the proposed FY 2022 COLA factors for City and County of Honolulu, County of Kauai, and the average U.S. city using the respective CPI commodities index and CPI services index and using the approximate 57 percent commodities/43 percent services shares obtained from the proposed 2018-based IPPS market basket. We created reweighted indexes using BLS data for 2009 through 2020—the most recent data available at the time of this proposed rulemaking. In the FY 2018 IPPS/LTCH PPS final rule (82 FR 38530), we created reweighted indexes based on the 2014-based IPPS market basket (which was adopted for the FY 2018 IPPS update) and BLS data for 2009 through 2016 (the most recent BLS data at the time of the FY 2018 IPPS/LTCH PPS rulemaking).

We continue to believe this methodology is appropriate because we continue to make a COLA for hospitals located in Alaska and Hawaii by multiplying the nonlabor-related portion of the standardized amount by a COLA factor. We note that OPM’s COLA factors were calculated with a statutorily mandated cap of 25 percent. As stated in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38530), under the COLA update methodology we finalized in the FY 2013 IPPS/LTCH PPS final rule, we exercised our discretionary authority to adjust payments to hospitals in Alaska and Hawaii by incorporating this cap. In applying this finalized methodology for updating the COLA factors, we are proposing for FY 2022 to continue to use a cap of 25 percent, as our policy is based on OPM’s COLA factors (updated by the methodology described previously).

Applying this methodology, the COLA factors that we are proposing to establish for FY 2022 to adjust the nonlabor-related portion of the standardized amount for hospitals located in Alaska and Hawaii are shown in the table in this section. For comparison purposes, we also are showing the FY 2018 COLA factors. We note that the proposed FY 2022 COLA factors for City and County of Honolulu, County of Kauai, and County of Maui and County of Kalawao are a result of applying the 25 percent cap as described previously.

Lastly, as we finalized in the FY 2013 IPPS/LTCH PPS final rule (77 FR 53700 and
C. Calculation of the Proposed Prospective Payment Rates

1. General Formula for Calculation of the Prospective Payment Rates for FY 2022

In general, the operating prospective payment rate for all hospitals (including hospitals in Puerto Rico) paid under the IPPS, except SCHs and MDHs, for FY 2022 equals the Federal rate (which includes uncompensated care payments).

Under current law, the MDH program has been extended for discharges occurring through September 30, 2022. SCHs and MDHs are paid based on whichever of the following rates yields the greatest aggregate payment: The Federal national rate (which, as discussed in section VI.G. of the preamble of this proposed rule, includes uncompensated care payments); the updated hospital-specific rate based on FY 1982 costs per discharge; the updated hospital-specific rate based on FY 1987 costs per discharge; the updated hospital-specific rate based on FY 1996 costs per discharge; or the updated hospital-specific rate based on FY 2006 costs per discharge to determine the rate that yields the greatest aggregate payment. The prospective payment rate for SCHs for FY 2022 equals the higher of the applicable Federal rate, or the hospital-specific rate as described later in this section. The prospective payment rate for MDHs for FY 2022 equals the higher of the Federal rate, or the Federal rate plus 75 percent of the difference between the Federal rate and the hospital-specific rate as described in this section. For MDHs, the updated hospital-specific rate is based on FY 1982, FY 1987, or FY 2002 costs per discharge, whichever yields the greatest aggregate payment.

2. Operating and Capital Federal Payment Rate and Outlier Payment Calculation

Note: The formula specified in this section is used for actual claim payment and is also used by CMS to project the outlier threshold for the upcoming fiscal year. The difference is the source of some of the variables in the formula. For example, operating and capital CCRs for actual claim payment are from the PSF while CMS uses an adjusted CCR (as described previously) to project the threshold for the upcoming fiscal year. In addition, charges for a claim payment are from the bill while charges to project the threshold are from the MedPAR data with an inflation factor applied to the charges (as described earlier).

Step 1—Determine the MS–DRG and MS–DRG relative weight (from Table 5) for each claim based on the ICD–10–CM diagnosis and ICD–10–PCS procedure codes on the claim.

Step 2—Select the applicable average standardized amount depending on whether the hospital submitted qualifying quality data and is a meaningful EHR user, as described previously.

Step 3—Compute the operating and capital payment rate:

Federal Payment Rate for Operating Costs = MS–DRG Relative Weight × [[Labor-Related Applicable Standardized Amount × Applicable CBSA Wage Index] + (Nonlabor-Related Applicable Standardized Amount × Cost-of-Living Adjustment)] (1 + IME + DSH + 0.25)

Federal Payment for Capital Costs = MS–DRG Relative Weight × Federal Capital Rate × Geographic Adjustment Fact × (1 + IME + DSH)

Step 4—Determine operating and capital costs:

Operating Costs = (Billed Charges × Operating CCR)

Capital Costs = (Billed Charges × Capital CCR)

Step 5—Compute operating and capital outlier threshold (CMS applies a geographic adjustment to the operating and capital outlier threshold to account for local cost variation):

Operating CCR to Total CCR = (Operating CCR)/(Operating CCR + Capital CCR)

Operating Outlier Threshold = [Fixed Loss Threshold × [(Labor-Related Portion × CBSA Wage Index) + Nonlabor-Related portion]] × Operating CCR to Total CCR + Federal Payment with IME, DSH + Uncompensated Care Payment + New Technology Add-On Payment Amount

Capital CCR to Total CCR = [Capital CCR]/ (Operating CCR + Capital CCR)

Capital Outlier Threshold = [Fixed Loss Threshold × Geographic Adjustment Factor × Capital CCR to Total CCR] + Federal Payment with IME and DSH

Step 6—Compute operating and capital outlier payments:

Marginal Cost Factor = 0.80 or 0.90 (depending on the MS–DRG)

Operating Outlier Payment = (Operating Costs – Operating Outlier Threshold) × Marginal Cost Factor

Capital Outlier Payment = (Capital Costs – Capital Outlier Threshold) × Marginal Cost Factor

The payment rate may then be further adjusted for hospitals that qualify for a low-volume payment adjustment under section 1886(d)(12) of the Act and 42 CFR 412.101(b). The base-operating DRG payment amount may be further adjusted by the hospital readmissions payment adjustment and the hospital VBP payment adjustment as described in sections 1886(g) and 1886(i) of the Act, respectively. Payments also may be reduced by the 1-percent adjustment under the HAC Reduction Program as described in section 1886(p) of the Act. We also make new technology add-on payments in accordance with section 1886(d)(6)(K) and (L) of the Act. Finally, we add the

Proposed FY 2022 Cost-of-Living Adjustment Factors (COLA):

<table>
<thead>
<tr>
<th>Alaska and Hawaii Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td>Alaska:</td>
</tr>
<tr>
<td>City of Anchorage and 80-kilometer (50-mile) radius by road</td>
</tr>
<tr>
<td>City of Fairbanks and 80-kilometer (50-mile) radius by road</td>
</tr>
<tr>
<td>City of Juneau and 80-kilometer (50-mile) radius by road</td>
</tr>
<tr>
<td>Rest of Alaska</td>
</tr>
<tr>
<td>Hawaii:</td>
</tr>
<tr>
<td>City and County of Honolulu</td>
</tr>
<tr>
<td>County of Hawaii</td>
</tr>
<tr>
<td>County of Kauai</td>
</tr>
<tr>
<td>County of Maui and County of Kalawao</td>
</tr>
</tbody>
</table>
uncompensated care payment to the total claim payment amount. As noted in the previous formula, we take uncompensated care payments and new technology add-on payments into consideration when calculating outlier payments.

3. Hospital-Specific Rate (Applicable Only to SCHs and MDHs)

a. Calculation of Hospital-Specific Rate

Section 1886(b)(3)(C) of the Act provides that SCHs are paid based on whichever of the following rates yields the greatest aggregate payment: The Federal rate; the updated hospital-specific rate based on FY 1982 costs per discharge; the updated hospital-specific rate based on FY 1987 costs per discharge; the updated hospital-specific rate based on FY 1996 costs per discharge; or the updated hospital-specific rate based on FY 2006 costs per discharge to determine the rate that yields the greatest aggregate payment.

As noted previously, the MDH program has been extended under current law for discharges occurring through September 30, 2022. For MDHs, the updated hospital-specific rate is based on FY 1982, FY 1987, or FY 2002 costs per discharge, whichever yields the greatest aggregate payment. For a more detailed discussion of the calculation of the hospital-specific rates, we refer readers to the FY 1984 IPPS interim final rule (48 FR 39772); the April 20, 1990 final rule with comment period (55 FR 15150); the FY 1991 IPPS final rule (55 FR 35994); and the FY 2001 IPPS final rule (65 FR 47082).

For a complete discussion of the applicable percentage increase applied to the hospital-specific rates for SCHs and MDHs, we refer readers to section V.B. of the preamble of this proposed rule.

In addition, because SCHs and MDHs use the same MS–DRGs as other hospitals when they are paid based in whole or in part on the hospital-specific rate, the hospital-specific rate is adjusted by a budget neutrality factor to ensure that changes to the MS–DRG classifications and the recalibration of the MS–DRG relative weights are made in a manner so that aggregate IPPS payments are unaffected. Therefore, the hospital-specific rate for an SCH or an MDH is adjusted by the proposed MS–DRG reclassification and recalibration budget neutrality factor, as discussed in section III. of this Addendum and listed in the table in section II. of this Addendum. The resulting rate is used in determining the payment rate that an SCH or MDH would receive for its discharges beginning on or after October 1, 2021. We note that, in this proposed rule, for FY 2022, we are not proposing to make a documentation and coding adjustment to the hospital specific-rate. We refer readers to section II.D. of the preamble of this proposed rule for a complete discussion regarding our proposed policies and previously finalized policies (including our historical adjustments to the payment rates) relating to the effect of changes in documentation and coding that do not reflect real changes in case mix.

III. Proposed Changes to Payment Rates for Acute Care Hospital Inpatient Capital-Related Costs for FY 2022

The PPS for acute care hospital inpatient capital-related costs was implemented for cost reporting periods beginning on or after October 1, 1991. The basic methodology for determining Federal capital prospective rates is set forth in the regulations at 42 CFR 412.308 through 412.352. In this section of this Addendum, we discuss the factors that we are proposing to use to determine the capital Federal rate for FY 2022, which would be effective for discharges occurring on or after October 1, 2021.

All hospitals (except ‘new’ hospitals under §412.304(c)(2)) are paid based on the capital Federal rate. We annually update the capital standard Federal rate, as provided in §412.308(c)(1), to account for capital input price increases and other factors. The regulations at §412.308(c)(2) also provide that the capital Federal rate be adjusted annually by a factor equal to the estimated proportion of outlier payments under the capital Federal rate to total capital payments under the capital Federal rate. In addition, §412.308(c)(3) requires that the capital Federal rate be reduced by an adjustment factor equal to the estimated proportion of payments for exceptions under §412.348. (We note that, as discussed in the FY 2013 IPPS/TCY PPS final rule (77 FR 53765), there is generally no longer a need for an exceptions payment adjustment factor.)

However, in limited circumstances, an additional payment exception for extraordinary circumstances is provided for under §412.348(f) for qualifying hospitals. Therefore, in accordance with §412.308(c)(3), an exceptions payment adjustment factor may need to be applied if such payments are made. Section 412.308(e)(4)(iii) requires that the capital standard Federal rate be adjusted so that the effects of the annual DRG reclassification and the recalibration of DRG weights and changes in the geographic adjustment factor (GAF) are budget neutral.

Section 412.374 provides for payments to hospitals located in Puerto Rico under the IPPS for acute care hospital inpatient capital-related costs, which currently specifies capital IPPS payments to hospitals located in Puerto Rico are based on 100 percent of the Federal rate.

A. Determination of the Proposed Federal Hospital Inpatient Capital-Related Prospective Payment Rate Update for FY 2022

In the discussion that follows, we explain the factors that we are proposing to use to determine the capital Federal rate for FY 2022. In particular, we explain why the proposed FY 2022 capital Federal rate would increase approximately 1.22 percent, compared to the FY 2021 capital Federal rate. As discussed in the impact analysis in
Appendix A to this FY 2022 IPPS/LTCH PPS proposed rule, we estimate that capital payments per discharge would increase approximately 0.5 percent during that same period. Because capital payments constitute approximately 10 percent of hospital payments, this change in the capital Federal rate yields only approximately a 0.1 percent change in actual payments to hospitals.

As discussed in section I.F of the preamble to this proposed rule, we are proposing to use FY 2020 MedPAR data for the FY 2022 ratessetting in situations where the FY 2020 data were significantly impacted by the COVID–19 PHE. Ordinarily, for this proposed rule, we would use claims from the FY 2020 MedPAR file for purposes of calculating the budget neutrality adjustment factors for changes resulting from the annual DRG reclassification and recalibration and changes in the GAF. However, as discussed in section I.F of the preamble to this proposed rule, we believe the FY 2020 claims data were significantly impacted by the COVID–19 PHE. Therefore, for the purposes of calculating these budget neutrality adjustment factors for FY 2022, we are proposing to use claims from the March 2020 update of the FY 2019 MedPAR file. Similarly, for this proposed rule, we ordinarily would use provider data from the December 2020 update of the Provider Specific File (PSF) for purposes of calculating these budget neutrality adjustment factors. However, for some IPPS hospitals, the data in the December 2020 update of the PSF may have come from cost reports that ended during the COVID–19 PHE, and therefore we believe these data may be affected by the PHE. Therefore, for the purposes of calculating these budget neutrality adjustment factors for FY 2022, we are proposing to use provider data from the March 2020 update of the PSF, which was derived from cost reports ending prior to the COVID–19 PHE, except for those fields on the PSF not affected by the PHE. As discussed previously and in section I.O.1 of Appendix A, we are also considering an alternative approach that would use the FY 2020 data that we ordinarily would use in the FY 2022 IPPS ratessetting. To facilitate comments on this alternative approach, which we may consider finalizing for FY 2022 based on consideration of comments received, we are making available budget neutrality and other ratessetting adjustments calculated under this alternative approach. These data can be found on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/index.

1. Projected Capital Standard Federal Rate Update

Under § 412.308(c)(1), the capital standard Federal rate is updated on the basis of an analytical framework that takes into account changes in a capital input price index (CIPI) and several other policy adjustment factors. Specifically, we adjust the projected CIPI rate of change, as appropriate, each year for case-mix index-related changes, for intensity, and for errors in previous CIPI forecasts. The proposed update factor for FY 2022 under that framework is 0.7 percent based on a projected 1.0 percent increase in the proposed 2018-based CIPI, a proposed 0.0 percentage point adjustment for intensity, a proposed 0.0 percentage point adjustment for case-mix, a proposed 0.0 percentage point adjustment for the DRG reclassification and recalibration, and a proposed forecast error correction for changes in the CIPI. As discussed in section III.C of this Addendum, we continue to believe that the CIPI is the most appropriate input price index for capital costs to measure capital price changes in a given year. We also explain the basis for the FY 2020 CIPI projection in that same section of this Addendum. In this proposed rule, we describe the policy adjustments that we are proposing to apply in the update framework for FY 2022.

The case-mix index is the measure of the average DRG weight for cases paid under the IPPS. Because the DRG weight determines the prospective payment for each case, any percentage increase in the case-mix index corresponds to an equal percentage increase in hospital payments. The case-mix index can change for any of several reasons—

- The average resource use of Medicare patient changes (“real” case-mix change);
- Changes in hospital documentation and coding of patient records result in higher-weighted DRG assignments (“coding effects”); or
- The annual DRG reclassification and recalibration changes may not be budget neutral (“reclassification effect”).

We define real case-mix change as actual changes in the mix (and resource requirements) of inpatient cases, as opposed to changes in documentation and coding behavior that result in assignment of cases to higher-weighted DRGs, but do not reflect higher resource requirements. The capital update framework includes the same case-mix index adjustment used in the former operating IPPS update framework (as discussed in the May 18, 2004 IPPS proposed rule for FY 2005 (69 FR 28816)). (We no longer use an update framework to make a recommendation for updating the operating IPPS standard Federal rate; as discussed in section II. of Appendix B to the FY 2006 IPPS final rule (70 FR 47707).)

For FY 2022, we are projecting a 0.5 percent total increase in the case-mix index. We estimated that the real case-mix increase would equal 0.5 percent for FY 2022. The net adjustment for changes in the case-mix index is the difference between the projected real increases in case mix and the projected total increase in case mix. Therefore, the proposed net adjustment for case-mix change in FY 2022 is 0.0 percentage point.

The capital update framework also contains an adjustment for the effects of DRG reclassification and recalibration. This adjustment is intended to remove the effect on total payments of prior year’s changes to the DRG classifications and relative weights, and for expected modification of practice patterns to remove noncost-effective services. Our intensity measure is based on a 5-year average.

We calculate case-mix constant intensity as the change in total cost per discharge, adjusted for price level changes (the CPI for hospital and related services) and changes in real case-mix. Without reliable estimates of the proportions of the overall annual intensity changes that are due, respectively, to ineffective practice patterns and the combination of quality-enhancing new technologies and complexity within the DRG
system, we assume that one-half of the annual change is due to each of these factors. Thus, the capital update framework provides an add-on to the input price index rate of increase of one-half of the estimated annual increase in intensity, to allow for increases within DRG severity and the adoption of quality-enhancing technology.

In this proposed rule, we are proposing to continue to use a Medicare-specific intensity measure that is based on a 5-year adjusted average of cost per discharge for FY 2022 (we refer readers to the FY 2011 IPPS/LTCH PPS final rule (75 FR 0436) for a full description of our Medicare-specific intensity measure). Specifically, for FY 2022, we are proposing to use an intensity measure that is based on an average of cost-per-discharge data from the 5-year period beginning with FY 2015 and extending through FY 2019. Based on these data, we estimated that case-mix constant intensity declined during FYs 2015 through 2019. In the past, when we found intensity to be declining, we believed a zero (rather than a negative) intensity adjustment was appropriate. Consistent with this approach, because we estimated that intensity would decline during that 5-year period, we believe it is appropriate to continue to apply a zero-intensity adjustment for FY 2022. Therefore we are proposing to make a 0.0 percentage point adjustment for intensity in the update for FY 2022.

Earlier, we described the basis of the components we used to develop the proposed 0.7 percent capital update factor under the capital update framework for FY 2022, as shown in the following table.

**Due to the impacts of the COVID-19 PHE on the FY 2020 MedPAR claims data, we are proposing to not evaluate the effects of the FY 2020 DRG reclassification and recalibration. Therefore, we are proposing to make a 0.0 percentage point adjustment for reclassification and recalibration in the update framework for FY 2022.**

2. Outlier Payment Adjustment Factor

Section 412.312(c) establishes a unified outlier payment methodology for inpatient operating and inpatient capital-related costs. A shared threshold is used to identify outlier cases for both inpatient operating and inpatient capital-related payments. Section 412.308(c)(2) provides that the standard Federal rate for inpatient capital-related costs be reduced by an adjustment factor equal to the estimated proportion of capital-related outlier payments to total inpatient capital-related PPS payments. The outlier threshold is set so that operating outlier payments are projected to be 5.1 percent of total operating IPPS DRG payments. For FY 2022, we are proposing to incorporate the estimated capital outlier reconciliation payment amounts into the outlier threshold model, as we did for FY 2021. (For more details on our proposal to incorporate outlier reconciliation payment amounts into the outlier threshold model, please see section II.A. of this Addendum to this proposed rule.)

For FY 2021, we estimated that capital payments for capital-related PPS payments would equal 5.34 percent of inpatient capital-related payments based on the capital Federal rate in FY 2021. Based on the threshold discussed in section II.A. of this Addendum, we estimate that prior to taking into account projected capital outlier reconciliation payments, outlier payments for capital-related costs would equal 5.34 percent for inpatient capital-related payments based on the proposed capital Federal rate for FY 2022. However, using the methodology outlined in section II.A. of this Addendum, we estimate that taking into account projected capital outlier reconciliation payments would decrease FY 2022 aggregate estimated capital outlier payments by 0.01 percent. Therefore, accounting for estimated capital outlier reconciliation, the estimated outlier payments for capital-related PPS payments would equal 5.33 percent (5.34 percent − 0.01 percent) of inpatient capital-related payments based on the capital Federal rate in FY 2022. Accordingly, we are proposing to apply an outlier adjustment factor of 0.9467 in determining the capital Federal rate for FY 2022. Thus, we estimate that the percentage of capital outlier payments to total capital Federal rate payments for FY 2022 would be slightly lower than the percentage for FY 2021.

The outlier reduction factors are not built permanently into the capital rates; that is, they are not applied cumulatively in determining the capital Federal rate. The proposed FY 2022 outlier adjustment of 0.9467 is a 0.01 percent change from the FY 2021 outlier adjustment of 0.9466. Therefore, the proposed net change in the outlier adjustment to the capital Federal rate for FY 2022 is 1.0001 (0.9467/0.9466) so that the proposed outlier adjustment would increase the FY 2022 capital Federal rate by approximately 0.01 percent compared to the FY 2021 outlier adjustment.

3. Budget Neutrality Adjustment Factor for Changes in DRG Classifications and Weights and the GAF

Section 412.308(c)(4)(ii) requires that the capital Federal rate be adjusted so that aggregate payments for the fiscal year based on the capital Federal rate, after any changes resulting from the annual DRG recategorization and recalibration and changes in the GAF, are projected to equal aggregate payments that would have been made on the basis of the capital Federal rate without such changes.

As discussed in section III.G.3. of the preamble of this proposed rule, in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42325 through 42339), we finalized a policy to help reduce wage index disparities between high and low wage index hospitals by increasing the wage index values for hospitals with a wage index value below the 25th percentile wage index. We stated that this policy will be effective for at least 4 years, beginning in FY 2020. Therefore, as discussed in section III.G.3 of the preamble of this proposed rule, this policy was applied in FY’s 2020 and 2021, and will continue to apply in FY 2022.

### PROPOSED FY 2022 UPDATE FACTOR TO THE CAPITAL FEDERAL RATE

<table>
<thead>
<tr>
<th>Capital Input Price Index*</th>
<th>1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensity</td>
<td>0.0</td>
</tr>
<tr>
<td>Case-Mix Adjustment Factors:</td>
<td></td>
</tr>
<tr>
<td>Projected Case-Mix Change</td>
<td>-0.5</td>
</tr>
<tr>
<td>Real Across DRG Change</td>
<td>0.5</td>
</tr>
<tr>
<td>Subtotal</td>
<td>0.0</td>
</tr>
<tr>
<td>Effect of FY 2020 Reclassification and Recalibration**</td>
<td>0.0</td>
</tr>
<tr>
<td>Forecast Error Correction</td>
<td>-0.3</td>
</tr>
<tr>
<td>Total Proposed Update</td>
<td>0.70</td>
</tr>
</tbody>
</table>

*The capital input price index represents the proposed 2018-based CIPI.

**Due to the impacts of the COVID-19 PHE on the FY 2020 MedPAR claims data, we are proposing to not evaluate the effects of the FY 2020 DRG reclassification and recalibration. Therefore, we are proposing to make a 0.0 percentage point adjustment for reclassification and recalibration in the update framework for FY 2022.
In FYs 2020 and 2021, we also placed a 5-percent cap on any decrease in a hospital’s wage index from the hospital’s final wage index in the prior fiscal year (see (84 FR 42336 through 42338) and (85 FR 58753 through 58755), respectively). As discussed in section III.A.2 of the preamble of this proposed rule, we are not proposing to apply this policy in FY 2022.

As we discussed in the FY 2020 IPPS/LTCH PPS final rule (84 FR 42638 through 42639), we augmented our historical methodology for computing the budget neutrality factor for changes in the GAFs in light of the effect of those wage index changes on the GAFs. Specifically, we established a 2-step methodology, under which we first calculate a factor to ensure budget neutrality for changes to the GAFs due to the update to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy, consistent with our historical GAF budget neutrality factor methodology. (We note that in FY 2021, we revisited and updated this methodology to provide a policy to calculate the rural floor without including the wage data of urban hospitals that have reclassified as rural under §412.103. We are not proposing to change this policy in FY 2022.)

In the second step, we calculate a factor to ensure budget neutrality for changes to the GAFs due to our policy to increase the wage index for hospitals with a wage index value below the 25th percentile wage index and our policy to place a 5-percent cap on any decrease in a hospital’s wage index from the hospital’s final wage index in the prior fiscal year for FY 2021. In this section, we refer to these two policies as the lowest quartile hospital wage index adjustment and the 5-percent cap on wage index decreases. Although we calculated separate factors for changes to the GAFs under each step of this 2-step methodology, our GAF/DRG budget neutrality factor reflected a single combined GAF budget neutrality factor that accounted for the budget neutrality calculations determined under each step of that methodology.

The budget neutrality factors applied for changes to the GAFs due to the update to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy are built permanently into the capital Federal rate. In FY 2021, in using the single combined GAF budget neutrality factor that accounted for both steps of our 2-step methodology, we also treated the FY 2020 budget neutrality factor for the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases as a permanent factor and did not remove it from the FY 2021 capital Federal rate. In this proposed rule, we are proposing to no longer permanently apply the budget neutrality factor for the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases such that they would not be applied cumulatively in determining the capital Federal rate. We believe this is more technically appropriate because the GAFs with the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases policies applied from the previous year are not used in the budget neutrality factor calculations for the current year. These GAFs are not used because the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases policies (when applicable) are applied after the out-migration and Frontier state adjustments, which are not subject to budget neutrality. Therefore, in order to continue to exclude the out-migration and Frontier state adjustments from budget neutrality, our budget neutrality calculations for permanent factors, as described in more detail later in this section, are determined from aggregate payments calculated using the GAFs from the previous year prior to the application of the out-migration and frontier state adjustment (and by extension the lowest quartile hospital wage index adjustment and 5-percent cap on wage index decreases). As a result, the budget neutrality factor for the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases only ensures budget neutrality for the application of those policies within the year, but not for a change in the policy as compared to the prior year. Accordingly and consistent with this proposed approach, prior to calculating the GAF budget neutrality factors for FY 2022, we are proposing to remove from the capital Federal rate the cumulative effect of the budget neutrality factor applied in FYs 2020 and 2021 for the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases. Specifically, we are proposing that the Federal rate factor applied in FY 2021 is built permanently into the capital Federal rate by a factor of 0.9927, which accounts for the cumulative effect of the FY 2020 budget neutrality factor of 0.9964 (84 FR 42639) and the FY 2021 budget neutrality factor of 0.9963 (85 FR 59047) (0.9964 × 0.9963 = 0.9927).

In light of the proposed changes to the wage index and the continuation of the lowest quartile hospital wage index adjustment policy in FY 2022 discussed previously, which directly affects the GAF, we are proposing to compute a single combined GAF budget neutrality factor for changes in the GAFs in two steps. We discuss our proposed 2-step calculation of the proposed GAF budget neutrality factors for FY 2022 as follows.

To determine the GAF budget neutrality factors for FY 2022, we first compared estimated aggregate capital Federal rate payments based on the FY 2021 MS–DRG classifications and relative weights and the proposed FY 2022 GAFs (without the lowest quartile hospital wage index adjustment) to estimated aggregate capital Federal rate payments based on the proposed FY 2022 MS–DRG classifications and relative weights and the proposed FY 2022 GAFs (without the lowest quartile hospital wage index adjustment). The proposed incremental adjustment factor for DRG classifications and changes in relative weights is 1.0001. The proposed incremental adjustment factor for proposed MS–DRG classifications and changes in relative weights (1.0001) and for proposed changes in the FY 2022 GAFs due to the proposed update to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy (1.0000) is 1.0001 (1.0001 × 1.0000). This incremental adjustment factor is built permanently into the capital Federal rate. To achieve budget neutrality for the effects of the lowest quartile hospital wage index adjustment on the FY 2022 GAFs, as described previously, we calculated a proposed budget neutrality adjustment factor of 0.9976. As discussed earlier in this section, we are proposing that the lowest quartile hospital wage index adjustment factor not be permanently built into the capital Federal rate. Consistent with this proposal, and unlike in previous rules, we present the calculated lowest quartile hospital wage index adjustment factor calculated under the second step of this 2-step methodology separately from the other calculated budget neutrality factors in the discussion that follows, and this factor is not included in the calculation of the combined proposed GAF/DRG adjustment factor described later in this section.

We compared estimated aggregate capital Federal rate payments based on the FY 2021 MS–DRG classifications and relative weights and the proposed FY 2022 GAFs (without the lowest quartile hospital wage index adjustment) to estimated aggregate capital Federal rate payments based on the proposed FY 2022 MS–DRG classifications and relative weights and the proposed FY 2022 GAFs (without the lowest quartile hospital wage index adjustment). The proposed incremental adjustment factor for DRG classifications and changes in relative weights is 1.0001. The proposed incremental adjustment factor for proposed MS–DRG classifications and changes in relative weights (1.0001) and for proposed changes in the FY 2022 GAFs due to the proposed update to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy (1.0000) is 1.0001 (1.0001 × 1.0000). This incremental adjustment factor is built permanently into the capital Federal rate. To achieve budget neutrality for the effects of the lowest quartile hospital wage index adjustment on the FY 2022 GAFs, as described previously, we calculated a proposed budget neutrality adjustment factor of 0.9976 for FY 2022.

We applied the budget neutrality adjustment factors described previously to the capital Federal rate. This follows the requirement under §412.308(c)(4)(ii) that estimated aggregate payments each year be no more or less than they would have been in the absence of the annual DRG reclassification and recalibration and changes in the GAFs. 
The methodology used to determine the recalibration and geographic adjustment factor (GAF/DRG) budget neutrality adjustment is similar to the methodology used in establishing budget neutrality adjustments under the IPPS for operating costs. One difference is that, under the operating IPPS, the budget neutrality adjustments for the effect of updates to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy are determined separately. Under the capital IPPS, there is a single budget neutrality adjustment factor for changes in the GAF that result from updates to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy. In addition, there is no adjustment for the effects that geographic reclassification or the lowest quartile hospital wage index adjustment described previously have on the other payment parameters, such as the payments for DSH or IME.

The proposed incremental GAF/DRG adjustment factor of 1.0001 accounts for the proposed MS–DRG reclassifications and recalibration and for proposed changes in the GAFs that result from updates to the wage data, the effects on the GAFs of FY 2022 geographic reclassification decisions made by the MGCRB compared to FY 2021 decisions, and the application of the rural floor policy. The proposed lowest quartile hospital wage index adjustment factor of 0.9976 accounts for changes in the GAFs that result from our policy to increase the wage index values for hospitals with a wage index value below the 25th percentile wage index. However, these factors do not account for changes in payments due to changes in the DSH and IME adjustment factors.

4. Proposed Capital Federal Rate for FY 2022

For FY 2021, we established a capital Federal rate of $466.21 (85 FR 59048, as corrected in 85 FR 78756). We are proposing to establish an update of 0.70 percent in determining the FY 2022 capital Federal rate for all hospitals. As a result of this proposed update and the proposed budget neutrality factors discussed earlier, we are proposing to establish a national capital Federal rate of $471.89 for FY 2022. The proposed national capital Federal rate for FY 2022 was calculated as follows:

- The proposed FY 2022 update factor is 1.007; that is, the proposed update is 0.7 percent.
- The proposed FY 2022 GAF/DRG budget neutrality adjustment factor that is applied to the capital Federal rate for proposed changes in the MS–DRG classifications and relative weights and proposed changes in the GAFs that result from updates to the wage data, wage index reclassifications and redesignations, and application of the rural floor policy is 1.0001.
- The proposed FY 2022 lowest quartile hospital wage index budget neutrality adjustment factor that is applied to the capital Federal rate for changes in the GAFs that result from our policy to increase the wage index values for hospitals with a wage index value below the 25th percentile wage index is 0.9976.
- The proposed FY 2022 outlier adjustment factor is 0.9467.

We are providing the following chart that shows how each of the proposed factors and adjustments for FY 2022 affects the computation of the proposed FY 2022 national capital Federal rate in comparison to the FY 2021 national capital Federal rate. The proposed FY 2022 update factor has the effect of increasing the capital Federal rate by 0.70 percent compared to the FY 2021 capital Federal rate. The proposed GAF/DRG budget neutrality adjustment factor has the effect of increasing the capital Federal rate by 0.01 percent. The proposed FY 2022 lowest quartile hospital wage index budget neutrality adjustment factor has the effect of increasing the capital Federal rate by 0.49 percent compared to the FY 2021 capital Federal rate. The proposed FY 2022 outlier adjustment factor has the effect of increasing the capital Federal rate by 0.01 percent compared to the FY 2021 capital Federal rate. The combined effect of all the proposed changes would increase the national capital Federal rate by approximately 1.22 percent, compared to the FY 2021 national capital Federal rate.
B. Calculation of the Proposed Inpatient Capital-Related Prospective Payments for FY 2022

For purposes of calculating payments for each discharge during FY 2022, the capital Federal rate is adjusted as follows: (Standard Federal Rate) x (DRG weight) x (GAF) x (COLA for hospitals located in Alaska and Hawaii) x (1 + DSH Adjustment Factor + IME Adjustment Factor, if applicable). The result is the adjusted capital Federal rate.

Hospitals also may receive outlier payments for those cases that qualify under the threshold established for each fiscal year. Section 412.312(c) provides for a shared threshold to identify outlier cases for both inpatient operating and inpatient capital-related payments. The proposed outlier threshold for FY 2022 is in section II.A. of this Addendum. For FY 2022, a case will qualify as a cost outlier if the cost for the case plus the (operating) IME and DSH payments (including both the empirically justified Medicare DSH payment and the estimated uncompensated care payment, as discussed in section II.A.4.j. of this Addendum) is greater than the prospective payment rate for the MS–DRG plus the proposed fixed-loss amount of $30,967.

Currently, as provided under § 412.304(c)(2), we pay a new hospital 85 percent of its reasonable costs during the first 2 years of operation, unless it elects to receive payment based on 100 percent of the capital Federal rate. Effective with the third year of operation, we pay the hospital based on 100 percent of the capital Federal rate (that is, the same methodology used to pay all other hospitals subject to the capital PPS).

C. Capital Input Price Index

1. Background

Like the operating input price index, the capital input price index (CIPI) is a fixed-weight price index that measures the price changes associated with capital costs during a given year. The CIPI differs from the operating input price index in one important aspect—the CIPI reflects the vintage nature of capital, which is the acquisition and use of capital over time. Capital expenses in any given year are determined by the stock of capital in that year (that is, capital that remains on hand from all current and prior capital acquisitions). An index measuring capital price changes needs to reflect this vintage nature of capital. Therefore, the CIPI was developed to capture the vintage nature of capital by using a weighted-average of past capital purchase prices up to and including the current year.

We periodically update the base year for the operating and capital input price indexes to reflect the changing composition of inputs for operating and capital expenses. For this FY 2022 IPPS/LTCH PPS proposed rule, we are proposing to rebase and revise the IPPS operating and capital market baskets to reflect a 2018 base year. For a complete discussion of this rebasing, we refer readers to section IV. of the preamble of this proposed rule.

2. Forecast of the CIPI for FY 2022

Based on IHS Global Inc.’s fourth quarter 2020 forecast, for this proposed rule, we are forecasting the proposed 2018-based CIPI to increase 1.0 percent in FY 2022. This reflects a projected 1.7 percent increase in vintage-weighted depreciation prices (building and fixed equipment, and movable equipment), and a projected 3.0 percent increase in other capital expense prices in FY 2022, partially offset by a projected 3.7 percent decline in vintage-weighted interest expense prices in FY 2022. The weighted average of these three factors produces the forecasted 1.0 percent increase for the proposed 2018-based CIPI in FY 2022. We are also proposing that if more recent data becomes available (for example, a more recent estimate of the increase in the 2018-based CIPI), we would use such data, if appropriate, to determine the FY 2022 increase in the 2018-based CIPI for the final rule.

COMPARISON OF FACTORS AND ADJUSTMENTS: FY 2021 CAPITAL FEDERAL RATE AND THE PROPOSED FY 2022 CAPITAL FEDERAL RATE

<table>
<thead>
<tr>
<th>Factor</th>
<th>FY 2021</th>
<th>FY 2022</th>
<th>Change</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update Factor</td>
<td>1.0110</td>
<td>1.0070</td>
<td>0.0040</td>
<td>-0.39%</td>
</tr>
<tr>
<td>GAF/DRG Adjustment Factor</td>
<td>1.0008</td>
<td>1.0001</td>
<td>0.0007</td>
<td>-0.07%</td>
</tr>
<tr>
<td>Lowest Quartile Adjustment Factor</td>
<td>0.9927</td>
<td>0.9976</td>
<td>0.0049</td>
<td>0.49%</td>
</tr>
<tr>
<td>Outlier Adjustment Factor</td>
<td>0.9466</td>
<td>0.9467</td>
<td>0.0001</td>
<td>0.01%</td>
</tr>
<tr>
<td>Capital Federal Rate</td>
<td>$466.21</td>
<td>$471.89</td>
<td>5.68</td>
<td>1.22%</td>
</tr>
</tbody>
</table>

1 The update factor and the GAF/DRG budget neutrality adjustment factors are built permanently into the capital Federal rates. Thus, for example, the incremental change from FY 2021 to FY 2022 resulting from the application of the proposed 1.0001 GAF/DRG budget neutrality adjustment factor for FY 2022 is a net change of 0.0001 (or 0.01 percent).

2 The FY 2021 lowest quartile adjustment factor accounts for the cumulative effect of the budget neutrality factors applied in FYs 2020 and 2021 for the lowest quartile hospital wage index adjustment and the 5 percent cap on wage index decreases. The value was determined as the product of the FY 2020 budget neutrality factor of 0.9964 (84 FR 42639) and the FY 2021 budget neutrality factor of 0.9963 (85 FR 59047). We are proposing that this adjustment factor would not be built permanently into the capital Federal rate; that is, the factor would not be applied cumulatively in determining the capital Federal rate. Therefore, we calculate the net change resulting from the application of the proposed FY 2022 lowest quartile adjustment factor is 0.9976/0.9927 or 1.0049 (or 0.49 percent).

3 The outlier reduction factor is not built permanently into the capital Federal rate; that is, the factor is not applied cumulatively in determining the capital Federal rate. Thus, for example, the net change resulting from the application of the proposed FY 2022 outlier adjustment factor is 0.9467/0.9466 or 1.0001 (or 0.01 percent).

4 Percent change may not sum due to rounding.
IV. Proposed Changes to Payment Rates for Excluded Hospitals: Rate-of-Increase Percentages for FY 2022

Payments for services furnished in children’s hospitals, 11 cancer hospitals, and hospitals located outside the 50 States, the District of Columbia and Puerto Rico (that is, short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa) that are excluded from the IPPS are made on the basis of reasonable costs based on the hospital’s own historical cost experience, subject to a rate-of-increase ceiling. A per discharge limit amount (as defined in §413.40(a) of the regulations) is set for each hospital, based on the hospital’s own cost experience in its base year, and updated annually by a rate-of-increase percentage specified in §413.40(c)(3). In addition, as specified in the FY 2018 IPPS/LTC PPS final rule (82 FR 38536), effective for cost reporting periods beginning during FY 2018, the annual update to the target amount for extended neoplastic disease care hospitals (hospitals described in §412.523(c)(3)(xvii) of the regulations) is the rate-of-increase percentage specified in §413.40(c)(3). We note that, in accordance with §403.752(a), religious nonmedical health care institutions (RNCHIs) are also subject to the rate-of-increase limits established under §413.40 of the regulations.

We are proposing to rebase and revise the IPPS operating basket to a 2018 base year. Therefore, we are proposing to use the percentage increase in the 2018-based IPPS operating market basket to update the target amounts for children’s hospitals, the 11 cancer hospitals, RNCHIs, short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa, and extended neoplastic disease care hospitals for FY 2022 and subsequent years. Accordingly, for FY 2022, the rate-of-increase percentage to be applied to the target amount for these hospitals would be the FY 2022 percentage increase in the proposed 2018-based IPPS operating market basket.

For this FY 2022 IPPS/LTC PPS proposed rule, based on IGI’s 2020 fourth quarter forecast, we estimate that the proposed 2018-based IPPS operating market basket update for FY 2022 would be 2.5 percent (that is, the estimate of the market basket rate-of-increase). Based on this estimate, the FY 2022 rate-of-increase percentage that would be applied to the FY 2021 target amounts in order to calculate the FY 2022 target amounts for children’s hospitals, the 11 cancer hospitals, RNCHIs, short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa, and extended neoplastic disease care hospitals would be 2.5 percent, in accordance with the applicable regulations at 42 CFR 413.40. However, we are proposing that for LTCHs, if IGI become available for the FY 2022 IPPS/LTC PPS final rule, we would use such data, if appropriate, to calculate the final IPPS operating market basket update for FY 2022.

IRFs and rehabilitation distinct part units, IPFs and psychiatric units, and LTCHs are excluded from the IPPS and paid under their respective PPSs. The IRF PPS, the IPF PPS, and the LTCH PPS are updated annually. We refer readers to section VII. of the preamble of this proposed rule and section V. of the Addendum to this proposed rule for the proposed changes to the Federal payment rates for the LTCH PPS for FY 2022. The annual updates for the IRF PPS and the IPF PPS are issued by the agency in separate Federal Register documents.

V. Proposed Changes to the Payment Rates for the LTCH PPS for FY 2022

A. Proposed LTCH PPS Standard Federal Payment Rate for FY 2022

1. Overview

In section VIII. of the preamble of this proposed rule, we discuss our annual updates to the payment rates, factors, and specific policies under the LTCH PPS for FY 2022. Under §412.523(c)(5) of the regulations, for FY 2012 and subsequent years, we updated the standard Federal payment rate by the most recent estimate of the LTCH PPS market basket at that time, including additional statutory adjustments required by sections 1886(m)(3) (citing sections 1886(b)(3)(B)(ii) and 1886(m)(4) of the Act as set forth in the regulations at §412.523(c)(8) through (xviii)). For a summary of the payment rate development prior to FY 2012, we refer readers to the FY 2018 IPPS/LTC PPS final rule (82 FR 38310 through 38312 herein.)

Section 1886(m)(3)(A) of the Act specifies that, for rate year 2012 and each subsequent rate year, any annual update to the standard Federal payment rate shall be reduced by the productivity adjustment described in section 1886(b)(3)(B)(xi)(III) of the Act (which we refer to as “the multi-factor productivity (MFP) adjustment”) as discussed in section VIII.C.2 of the preamble of this proposed rule. This section of the Act further provides that the application of section 1886(m)(3)(B)(i) of the Act may result in an annual update being less than zero for a rate year, and may result in payment rates for a rate year being less than such payment rates for the preceding rate year. (As noted in section VIII.C.2. of the preamble of this proposed rule, the annual update to the LTCH PPS occurs on October 1 and we have adopted the term “fiscal year” (FY) rather than “rate year” (RY) under the LTCH PPS beginning October 1, 2010. Therefore, for purposes of clarity, when discussing the annual update for the LTCH PPS, in accordance with the provisions of the Affordable Care Act, we use the term “fiscal year” rather than “rate year” for 2011 and subsequent years.)

For LTCHs that fail to submit the required quality reporting data in accordance with the LTCH QRP, the annual update is reduced by 2.0 percentage points as required by section 1886(m)(5) of the Act.

2. Development of the Proposed FY 2022 LTCH PPS Standard Federal Payment Rate

Consistent with our historical practice and §412.523(c)(3)(xvii), for FY 2022 we are proposing to apply the annual update to the LTCH PPS standard Federal payment rate from the previous year. Furthermore, in determining the proposed LTCH PPS standard Federal payment rate for FY 2022, we are also proposing to make certain regulatory adjustments, consistent with past practices. Specifically, in determining the proposed FY 2022 LTCH PPS standard Federal payment rate, we are proposing to apply a budget neutrality adjustment factor for the changes related to the area wage level adjustment (that is, changes to the wage data and labor-related share) as discussed in section V.B.5. of this Addendum to this proposed rule.

In this proposed rule, we are proposing to establish an annual update to the LTCH PPS standard Federal payment rate of 2.2 percent (that is, the most recent estimate of the LTCH PPS market basket increase of 2.4 percent less the MFP adjustment of 0.2 percentage point). Therefore, in accordance with §412.523(c)(3)(xviii), we are proposing to apply a factor of 1.002 to the FY 2021 LTCH PPS standard Federal payment rate of $43,755.34 to determine the proposed FY 2022 LTCH PPS standard Federal payment rate. Also, in accordance with §412.523(c)(3)(xvii) and §412.523(c)(4), we are required to reduce the annual update to the LTCH PPS standard Federal payment rate by 2.0 percentage points for LTCHs that fail to submit the required quality reporting data for FY 2022 as required under the LTCH QRP. Therefore, we are proposing to establish an annual update to the FY 2022 LTCH PPS standard Federal payment rate of 0.2 percent (that is, an update factor of 1.002) for FY 2022 for LTCHs that fail to submit the required quality reporting data for FY 2022 as required under the LTCH QRP. Therefore, we are proposing to apply a factor of 1.002 to the FY 2021 LTCH PPS standard Federal payment rate of $43,755.34 to determine the proposed FY 2022 LTCH PPS standard Federal payment rate of 1.00458. Based on the best available data at this time, to ensure that any proposed changes to the area wage level adjustment (that is, the proposed annual update of the wage index and labor-related share) would not result in any change (increase or decrease) in estimated aggregate LTCH PPS standard Federal payment rates. Accordingly, we are proposing to establish an LTCH PPS standard Federal payment rate of $44,827.87 (calculated as $43,755.34 x 1.022 x 1.002458) for FY 2022. For LTCHs that fail to submit quality reporting data for FY 2022, in accordance with the requirements of the LTCH QRP under section 1886(m)(5) of the Act, we are proposing to establish an LTCH PPS standard Federal payment rate of $43,950.62 (calculated as $43,755.34 x 1.022 x 1.002458) for FY 2022.

B. Proposed Adjustment for Area Wage Levels Under the LTCH PPS for FY 2022

1. Background

Under the authority of section 123 of the BBRA, as amended by section 307(b) of the BIPA, we established an adjustment to the LTCH PPS standard Federal payment rate to account for differences in LTCH area wage levels under § 412.525(c). The labor-related share of the LTCH PPS standard Federal payment rate is adjusted to account for geographic differences in area wage levels by applying the applicable LTCH PPS wage index. The applicable LTCH PPS wage index
is computed using wage data from inpatient acute care hospitals without regard to reclassification under section 1886(d)(8) or section 1886(d)(10) of the Act.

The proposed FY 2022 LTCH PPS standard Federal payment rate wage index values that would be used under the LTCH PPS standard Federal payment rate discharge occurring on or after October 1, 2021, through September 30, 2022, are presented in Table 12A (for urban areas) and Table 12B (for rural areas), which are listed in section VI. of the Addendum to this proposed rule and available via the internet on the CMS website.

2. Proposed Geographic Classifications (Labor Market Areas) for the LTCH PPS Standard Federal Payment Rate

In adjusting for the differences in area wage levels under the LTCH PPS, the labor-related portion of an LTCH’s Federal prospective payment rate is adjusted by using an appropriate area wage index based on the geographic classification (labor market area) in which the LTCH is located. Specifically, the application of the LTCH PPS area wage level adjustment under existing § 412.525(c) is made based on the labor market definitions that are updated every 10 years, based on the results of the decennial census. OMB issues major revisions to statistical areas and Combined Statistical Areas, and provided guidance on the use of the delineations of these statistical areas based on the standards published on June 28, 2010 (75 FR 37246), and Census Bureau data. We adopted the updates set forth in OMB Bulletin No. 18–04 for the FY 2021 LTCH PPS final rule (85 FR 59050 through 59051). A copy of the September 14, 2018, OMB Bulletin No. 18–04, may be obtained at https://www.whitehouse.gov/wp-content/uploads/2018/09/Bulletin-18–04.pdf.

On March 6, 2020, OMB issued Bulletin No. 20–01, which provided updates to and superseded OMB Bulletin No. 18–04, which was issued on September 14, 2018. The attachments to OMB Bulletin No. 20–01 provided detailed information on the update to statistical areas since September 14, 2018. (For a copy of this bulletin, we refer readers to the following website: https://www.whitehouse.gov/wp-content/uploads/2020/03/Bulletin-20–01.pdf). In OMB Bulletin No. 20–01, OMB announced one new Micropolitan Statistical Area and one new component of an existing Combined Statistical Area.

After reviewing OMB Bulletin No. 20–01, we have determined that the changes in Bulletin 20–01 encompassed delineation changes that would not affect the CBSPA-based labor market area delineations used under the LTCH PPS. Specifically, all changes were to New England City and Town Area delineations (NECTA) and the redesignation of a single rural county into a newly created Micropolitan Statistical Area. The LTCH PPS CBSPA-based labor market area delineations do not utilize NECTA definitions, and considers hospitals located in Micropolitan Statistical Areas in each State’s rural area. Therefore, we are proposing to adopt the updates set forth in OMB Bulletin No. 20–01, but specific wage index updates are not necessary as a result of the adopting the updates.

We believe the CBSPA-based labor market area delineations as established in OMB Bulletin 20–01 will ensure that the LTCH PPS area wage level adjustment most appropriately accounts for and reflects the relative hospital wage levels in the geographic area of the hospital as compared to the national average hospital wage level based on the best available data that reflect the local economies and area wage levels of the hospitals that are currently located in the geographic labor market areas.

Therefore, in this proposed rule, under the authority of section 123 of the BBRA, as amended by section 307(b) of the BIPA, we are proposing to adopt the revisions announced in OMB Bulletin No. 20–01 to the CBSPA-based labor market areas delineations under the LTCH PPS, effective October 1, 2022. As already noted, our proposal to adopt the updates set forth in OMB Bulletin No. 20–01 will not alter the LTCH PPS area wage level adjustment because our CBSPA-based labor market area delineations are the same as the CBSPA-based labor market area delineations adopted in the FY 2021 IPPS/LTCP PPS final rule based on OMB Bulletin No. 18–04 (85 FR 59050 through 59051). We also note that, as discussed in section III.A.2. of the preamble of this proposed rule, we are also proposing to use these CBSPA-based delineations under the IPPS.

We note that, in connection with our adoption in FY 2021 of the updates in OMB bulletin 18–04, for FY 2022 we are proposing a policy to place a 5 percent cap on any decrease in an LTCH’s wage index from the LTCH’s final wage index in FY 2020, so that an LTCH’s wage index for FY 2021 would not be less than 95 percent of its wage index for FY 2020. We refer the reader to the FY 2021 IPPS/LTCP PPS final rule (85 FR 59052 through 59053) for a complete discussion of this transition. As finalized in the FY 2021 IPPS/LTCP PPS final rule, this transition expires at the end of FY 2021.

3. Proposed Labor-Related Share for the LTCH PPS Standard Federal Payment Rate

Under the payment adjustment for the differences in area wage levels under existing § 412.525(c), the labor-related portion of operating costs and a labor-related portion of capital costs under the IPPS is adjusted by using a 2013 base year. In addition, we also note that, as discussed in section III.A.2. of the preamble of this proposed rule, we are also proposing to use these CBSPA-based delineations under the IPPS.

We note that, in connection with our adoption in FY 2021 of the updates in OMB bulletin 18–04, for FY 2022 we are proposing a policy to place a 5 percent cap on any decrease in an LTCH’s wage index from the LTCH’s final wage index in FY 2020, so that an LTCH’s wage index for FY 2021 would not be less than 95 percent of its wage index for FY 2020. We refer the reader to the FY 2021 IPPS/LTCP PPS final rule (85 FR 59052 through 59053) for a complete discussion of this transition. As finalized in the FY 2021 IPPS/LTCP PPS final rule, this transition expires at the end of FY 2021.

Additional background information on the historical development of the labor-related share under the LTCH PPS can be found in the FY 2007 LTCH PPS final rule (71 FR 27810 through 27817 and 27829 through 27830) and the FY 2012 IPPS/LTCP PPS final rule (76 FR 51766 through 51769 and 51808). For FY 2013, we rebased and revised the market basket used under the LTCH PPS by adopting a 2009-based LTCH market basket. In addition, for FY 2013 through FY 2016, we determined the labor-related share annually as the sum of the relative importance of each labor-related cost category of the 2009-based LTCH market basket for the applicable fiscal year based on the best available data. (For more details, we refer readers to the FY 2013 IPPS/LTCP PPS final rule (77 FR 53477 through 53479)). For FY 2017, we rebased and revised the 2009-based LTCH market basket to reflect a 2013 base year. In addition, for FY 2017 through FY 2020, we determined the
the labor-related share annually as the sum of the relative importance of each labor-related cost category of the 2013-based LTCH market basket for the respective fiscal year based on the best available data. (For more details, we refer readers to the FY 2017 IPPS/LTCH PPS final rule (FR 57065 through 57096).) Then, effective for FY 2021, we rebased and revised the 2013-based LTCH market basket to reflect a 2017 base year and determined the labor-related share annually as the sum of the relative importance of each labor-related cost category in the 2017-based LTCH market basket using the most recent available data. (For more details, we refer readers to the FY 2021 IPPS/LTCH PPS final rule (FR 58909 through 58926).)

In this proposed rule, consistent with our historical practice, we are proposing to establish that the LTCH PPS labor-related share for FY 2022 is the sum of the FY 2022 relative importance of each labor-related cost category in the LTCH market basket using the most recent available data. Specifically, we are proposing to establish that the labor-related share for FY 2022 includes the sum of the labor-related portion of operating costs from the 2017-based LTCH market basket (that is, the sum of the FY 2022 relative importance shares of Wages and Salaries; Employee Benefits; Professional Fees; Labor-Related; Administrative and Facilities Support Services; Installation, Maintenance, and Repair Services; All Other: Labor-related Services) and a portion of the relative importance of Capital-related cost weight from FY 2017-based LTCH market basket. The relative importance reflects the different rates of price change for these cost categories between the base year (2017) and FY 2022. Based on IHS Global Inc.’s fourth quarter 2020 forecast of the 2017-based LTCH market basket, the sum of the FY 2022 relative importance for Wages and Salaries, Employee Benefits, Professional Fees: Labor-related, Administrative and Facilities Support Services, Installation, Maintenance, and Repair Services, and All Other: Labor-related Services is 63.7 percent. The portion of capital-related costs that is influenced by the local labor market is estimated to be 46 percent (that is, the same percentage applied to the 2009-based and 2013-based LTCH market baskets). Since the FY 2022 relative importance for Capital-Related costs is 9.4 percent based on IHS Global Inc.’s fourth quarter 2020 forecast of the 2017-based LTCH market basket, we took 46 percent of 9.4 percent to determine the labor-related share of capital-related cost for FY 2022 of 4.3 percent. Therefore, we are proposing to establish a total labor-related share for FY 2022 of 68.0 percent (the sum of 63.7 percent for the operating cost and 4.3 percent for the labor-related share of capital-related cost).

4. Proposed Wage Index for FY 2022 for the LTCH PPS Standard Federal Payment Rate

Historically, we have established LTCH PPS wage index values, if any, based on the wage index values from acute care IPPS hospital wage data without taking into account geographic reclassification under sections 1886(d)(8) and 1886(d)(10) of the Act (67 FR 56019). The area wage level adjustment established under the LTCH PPS is based on LTCH’s actual location without regard to the “urban” or “rural” designation of any related or affiliated provider.

In the FY 2021 IPPS/LTCH PPS final rule (85 FR 59051 through 59052), we calculated the FY 2021 LTCH PPS area wage index values using the same data used for the FY 2021 IPPS wage index calculations (that is, data from cost reporting periods beginning during FY 2017), without taking into account geographic reclassification under sections 1886(d)(8) and 1886(d)(10) of the Act, as these were the most recent complete data available at that time. In that final rule, we indicated that we computed the FY 2021 LTCH PPS area wage index values consistent with the urban and rural geographic classifications (market labor areas) that were in place at that time and consistent with the pre-reclassification IPPS wage index policy (that is, our historical policy of not taking into account IPPS geographic reclassifications in determining payments under the LTCH PPS).

As with the IPPS wage index, wage data for multicampus hospitals with campuses located in different geographic areas (CBSAs) are apportioned to each CBSA where the campus (or campuses) are located. We also continued to use our existing policy for determining area wage index values for areas where there are no IPPS wage data.

Consistent with our historical methodology, to determine the applicable area wage index values for the FY 2022 LTCH PPS standard Federal payment rate, under the broad authority of section 123 of the BBRA, as amended by section 307(b) of the BIPA, we are proposing to continue to use our historical practice of using the same data we are proposing to use to compute the proposed FY 2022 acute care hospital inpatient wage index, as discussed in section III. of the preamble of this proposed rule (that is, wage data collected from cost reports submitted by IPPS hospitals for cost reporting periods beginning during FY 2018) because these data are the most recent complete data available.

In addition, we are proposing to compute the FY 2022 LTCH PPS standard Federal payment rate wage index values consistent with the “urban” and “rural” geographic classifications that is, the proposed labor market area delineations as previously discussed in section V.B. of this Addendum) and our historical policy of not taking into account IPPS geographic reclassification under sections 1886(d)(8) and 1886(d)(10) of the Act in determining payments under the LTCH PPS. We are also proposing to continue to apportion the wage data for multicampus hospitals with campuses located in different labor market areas to each CBSA where the campus or campuses are located, consistent with the IPPS policy. Lastly, consistent with our existing methodology for determining the LTCH PPS wage index values, for FY 2022 we are proposing to continue to use our existing methodology for determining area wage index values for areas where there are no IPPS wage data. Under our existing methodology, the LTCH PPS wage index value for urban CBSAs with no IPPS wage data is determined by using an average of all of the urban areas within the State, and the LTCH PPS wage index value for rural areas with no IPPS wage data is determined by using the unweighted average of the wage indices from all of the CBSAs that are contiguous to the rural counties of the State.

Based on the FY 2018 IPPS wage data that we are proposing to use, to determine the FY 2022 LTCH PPS area wage index values, if any, in this final rule, there are no IPPS wage data for the urban area of Hinesville, GA (CBSA 25980). Consistent with our existing methodology, we calculated the proposed FY 2022 area wage index value for CBSA 25980 as the average of the wage index values for all of the other urban areas within the State of Georgia (that is, CBSAs 10500, 12020, 12060, 12260, 15260, 16860, 17980, 19140, 23580, 31420, 40660, 41230, 46660 and 47580), as shown in Table 12A, which is listed in section VI. of the Addendum to this proposed rule and available via the internet on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/LongTermCareHospitalPayments/LongTermCareHospitalPPS/wageindex/LongTermCareHospitalPPS/wageindex.html

Based on the FY 2018 IPPS wage data that we are proposing to use to determine the proposed FY 2022 LTCH PPS standard Federal payment rate area wage index values in this proposed rule, there are no rural areas without IPPS hospital wage data. Therefore, it is not necessary to use our established methodology to calculate a proposed LTCH PPS standard Federal payment rate wage index value for rural areas with no IPPS wage data for FY 2022. We note that, as IPPS wage data are dynamic, it is possible that the number of rural areas without IPPS wage data will vary in the future.

5. Proposed Budget Neutrality Adjustments for Changes to the LTCH PPS Standard Federal Payment Rate Area Wage Level Adjustment

Historically, the LTCH PPS wage index and labor-related share are updated annually based on the latest available data. Under § 412.535(c)(6), any changes to the area wage index values or labor-related share are to be made in a budget neutral manner such that estimated aggregate LTCH PPS payments are unaffected; that is, will be neither greater than nor less than estimated aggregate LTCH PPS payments without such changes to the area wage level adjustment. Under this policy, we determine an area wage level adjustment budget neutrality factor that is applied to the standard Federal payment rate to ensure that any changes to the area wage level adjustments are budget neutral such that any changes to the area wage index values or labor-related share would not result in any change (increase or decrease) in estimated aggregate LTCH PPS payments. Accordingly, under § 412.535(d)(4), we have applied an area wage level adjustment budget neutrality factor in determining the standard Federal payment rate, and we also established a methodology for calculating an area wage level adjustment budget neutrality factor. For additional information on the establishment of our budget neutrality policy for changes to the area wage level adjustment, we refer readers to the FY 2012 IPPS/LTCH PPS final rule (76 FR 51771 through 51773 and 51809.)

For FY 2022, in accordance with § 412.535(d)(4), we are proposing to apply an
area wage level budget neutrality factor to adjust the LTCH PPS standard Federal payment rate to account for the estimated effect of the adjustments or updates to the area wage level adjustment under § 412.525(c)(1) on estimated aggregate LTCH PPS payments under the methodology we established in the FY 2012 IPPS/LTCH PPS final rule (76 FR 51773).

Specifically, we are proposing to determine an area wage level adjustment budget neutrality factor that is applied to the LTCH PPS standard Federal payment rate under § 412.523(d)(4) for FY 2022 using the following methodology:

Step 1—Calculate estimated aggregate LTCH PPS standard Federal payment rate payments using the FY 2021 wage index values and the FY 2021 labor-related share of 68.1 percent.

Step 2—Calculate estimated aggregate LTCH PPS standard Federal payment rate payments using the proposed FY 2022 wage index values and the proposed FY 2022 labor-related share of 68.1 percent. (As noted previously, the changes to the wage index values based on updated hospital wage data are discussed in section V.B.4. of this Addendum to this proposed rule and the labor-related share is discussed in section V.B.3. of this Addendum to this proposed rule.)

Step 3—Calculate the ratio of these estimated total LTCH PPS standard Federal payment rate payment payments by dividing the estimated total LTCH PPS standard Federal payment rate payment payments using the FY 2021 area wage level adjustments (calculated in Step 1) by the estimated total LTCH PPS standard Federal payment rate payment payments using the proposed FY 2022 updates to the area wage level adjustment (calculated in Step 2) to determine the proposed budget neutrality factor for updates to the area wage level adjustment for FY 2022 LTCH PPS standard Federal payment rate payments.

Step 4—Apply the proposed FY 2022 updates to the area wage level adjustment budget neutrality factor from Step 3 to determine the proposed FY 2022 LTCH PPS standard Federal payment rate after the application of the proposed FY 2022 annual update.

We note that, because the area wage level adjustment under § 412.525(c) is an adjustment to the LTCH PPS standard Federal payment rate, consistent with historical practice, we only used data from claims that qualified for payment at the LTCH PPS standard Federal payment rate under the dual rate LTCH PPS to calculate the proposed FY 2022 LTCH PPS standard Federal payment rate area wage level adjustment budget neutrality factor.

For this proposed rule, using the steps in the methodology previously described, we determined a proposed FY 2022 LTCH PPS standard Federal payment rate area wage level adjustment budget neutrality factor of 1.002458. Accordingly, in section V.A. of the Addendum to this proposed rule, we applied the proposed area wage level adjustment budget neutrality factor of 1.002458 to determine the proposed FY 2022 LTCH PPS standard Federal payment rate, in accordance with § 412.523(d)(4).

C. Proposed Cost-of-Living Adjustment (COLA) for LTCHs Located in Alaska and Hawaii

Under § 412.525(b), a cost-of-living adjustment (COLA) is provided for LTCHs located in Alaska and Hawaii to account for the higher costs incurred in those States. Specifically, we apply a COLA to payments to LTCHs located in Alaska and Hawaii by multiplying the nonlabor-related portion of the standard Federal payment rate by the applicable COLA factors established annually by CMS. Higher labor-related costs for LTCHs located in Alaska and Hawaii are taken into account in the adjustment for area wage levels previously described. The methodology used to determine the COLA factors for Alaska and Hawaii is based on a comparison of the growth in the Consumer Price Indexes (CPIs) for Anchorage, Alaska, and Honolulu, Hawaii, relative to the growth in the CPI for the average U.S. city as published by the Bureau of Labor Statistics (BLS). We note that for the prior update to the COLA factors, we again updated the COLA factors using the methodology as previously described every 4 years (at the same time as the update to the labor-related share of the IPPS market basket); the first year of our current policy was FY 2014. We refer readers to the FY 2013 IPPS/LTCH PPS final rule (77 FR 53481 through 53482) for a detailed description of this methodology. For the FY 2014 IPPS/LTCH PPS final rule, we updated the COLA factors for Alaska and Hawaii published by OPM for 2009 using this methodology (published through 50998). For the FY 2018 IPPS/LTCH PPS final rule, we again updated the COLA factors using this same methodology (82 FR 38539 through 38540) to correspond to the updated of the labor-related share of the IPPS market basket, which reflects Hawaii relative to the CPI in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes. Because BLS publishes CPI data for Alaska and Hawaii, using the methodology we established in the FY 2012 IPPS/LTCH PPS final rule, we are proposing to use the comparison of the growth in the overall CPI relative to the CPI for those areas to update the COLA factors for all areas in Alaska and Hawaii, respectively. We believe that the relative price differences between these urban areas and the United States (as measured by the CPIs mentioned previously) are appropriate proxies for the relative price differences between the other areas of Alaska and Hawaii and the United States.

BLS publishes the CPI for All Items for Urban Alaska, Urban Hawaii, and for the average U.S. city. However, BLS does not publish data for only our methodology finalized in the FY 2013 IPPS/LTCH PPS final rule, we are proposing to create reweighted CPIs for each of the respective areas to reflect the underlying composition of the IPPS market basket. We believe that the relative price differences between these urban areas and the United States (as measured by the CPIs mentioned previously) are appropriate proxies for the relative price differences between the other areas of Alaska and Hawaii and the United States.

Beginning in 2018, these indexes were renamed to the CPI for Urban Alaska and the CPI for Urban Hawaii, respectively, due to the BLS updating its sample to reflect the urban population (https://www.bls.gov/regions/west/factsheet/2018cpirevisionwest.pdf, accessed January 22, 2021). The CPI for Urban Alaska area covers Anchorage and Matanuska-Susitna Borough in the State of Alaska and the CPI for Urban Hawaii covers Honolulu in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes.

For this proposed rule, using the steps in the methodology previously described, we determined a proposed FY 2018 CPI-U for Urban Alaska and the CPI-U for Urban Hawaii, respectively, due to the BLS updating its sample to reflect the data from the 2010 decennial census on the composition of the urban population (https://www.bls.gov/regions/west/factsheet/2018cpirevisionwest.pdf, accessed January 22, 2021). The CPI-U for Urban Alaska area covers Anchorage and Matanuska-Susitna Borough in the State of Alaska and the CPI-U for Urban Hawaii covers Honolulu in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes.

For this proposed rule, using the steps in the methodology previously described, we determined a proposed FY 2018 CPI-U for Urban Alaska and the CPI-U for Urban Hawaii, respectively, due to the BLS updating its sample to reflect the data from the 2010 decennial census on the composition of the urban population (https://www.bls.gov/regions/west/factsheet/2018cpirevisionwest.pdf, accessed January 22, 2021). The CPI-U for Urban Alaska area covers Anchorage and Matanuska-Susitna Borough in the State of Alaska and the CPI-U for Urban Hawaii covers Honolulu in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes.

We believe that the relative price differences between these urban areas and the United States (as measured by the CPIs mentioned previously) are appropriate proxies for the relative price differences between the other areas of Alaska and Hawaii and the United States.

For this proposed rule, using the steps in the methodology previously described, we determined a proposed FY 2018 CPI-U for Urban Alaska and the CPI-U for Urban Hawaii, respectively, due to the BLS updating its sample to reflect the data from the 2010 decennial census on the composition of the urban population (https://www.bls.gov/regions/west/factsheet/2018cpirevisionwest.pdf, accessed January 22, 2021). The CPI-U for Urban Alaska area covers Anchorage and Matanuska-Susitna Borough in the State of Alaska and the CPI-U for Urban Hawaii covers Honolulu in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes.

For this proposed rule, using the steps in the methodology previously described, we determined a proposed FY 2018 CPI-U for Urban Alaska and the CPI-U for Urban Hawaii, respectively, due to the BLS updating its sample to reflect the data from the 2010 decennial census on the composition of the urban population (https://www.bls.gov/regions/west/factsheet/2018cpirevisionwest.pdf, accessed January 22, 2021). The CPI-U for Urban Alaska area covers Anchorage and Matanuska-Susitna Borough in the State of Alaska and the CPI-U for Urban Hawaii covers Honolulu in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes.

For this proposed rule, using the steps in the methodology previously described, we determined a proposed FY 2018 CPI-U for Urban Alaska and the CPI-U for Urban Hawaii, respectively, due to the BLS updating its sample to reflect the data from the 2010 decennial census on the composition of the urban population (https://www.bls.gov/regions/west/factsheet/2018cpirevisionwest.pdf, accessed January 22, 2021). The CPI-U for Urban Alaska area covers Anchorage and Matanuska-Susitna Borough in the State of Alaska and the CPI-U for Urban Hawaii covers Honolulu in the State of Hawaii. BLS notes that the indexes are considered continuous over time, regardless of name or composition changes.
FY 2022 to adjust the nonlabor-related portion of the LTCH PPS standard Federal rate for LTCHs located in Alaska and Hawaii are shown in this table. For comparison purposes, we also are showing the COLA factors for FYs 2018 through 2021.

### PROPOSED COST-OF-LIVING ADJUSTMENT FACTORS FOR ALASKA AND HAWAI UNDER THE LTCH PPS FOR FY2022

<table>
<thead>
<tr>
<th>Area</th>
<th>FY 2018 through FY 2021</th>
<th>Proposed FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City of Anchorage and 80-kilometer (50-mile) radius by road</td>
<td>1.25</td>
<td>1.22</td>
</tr>
<tr>
<td>City of Fairbanks and 80-kilometer (50-mile) radius by road</td>
<td>1.25</td>
<td>1.22</td>
</tr>
<tr>
<td>City of Juneau and 80-kilometer (50-mile) radius by road</td>
<td>1.25</td>
<td>1.22</td>
</tr>
<tr>
<td>Rest of Alaska</td>
<td>1.25</td>
<td>1.24</td>
</tr>
<tr>
<td>Hawaii:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City and County of Honolulu</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>County of Hawaii</td>
<td>1.21</td>
<td>1.22</td>
</tr>
<tr>
<td>County of Kauai</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>County of Maui and County of Kalawao</td>
<td>1.25</td>
<td>1.25</td>
</tr>
</tbody>
</table>

**D. Proposed Adjustment for LTCH PPS High Cost Outlier (HCO) Cases**

1. **HCO Background**

   From the beginning of the LTCH PPS, we have included an adjustment to account for cases in which there are extraordinarily high costs relative to the costs of most discharges. Under this policy, additional payments are made based on the degree to which the estimated cost of a case (which is calculated by multiplying the Medicare allowable covered charge by the hospital's overall hospital CCR) exceeds a fixed-loss amount. This policy results in greater payment accuracy under the LTCH PPS and the Medicare program, and the LTCH sharing the financial risk for the treatment of extraordinarily high-cost cases.

   We retained the basic tenets of our HCO policy in FY 2016 when we implemented the dual rate LTCH PPS payment structure under section 1206 of Public Law 113–67. LTCH discharges that meet the criteria for exclusion from the site neutral payment rate (that is, LTCH PPS standard Federal payment rate cases) are paid at the LTCH PPS standard Federal payment rate, which includes, as applicable, HCO payments under § 412.523(e). LTCH discharges that do not meet the criteria for exclusion are paid at the site neutral payment rate, which includes, as applicable, HCO payments under § 412.522(c)(2)(i). In the FY 2016 IPPS/LTCH PPS final rule, we established separate fixed-loss amounts and targets for the two different LTCH PPS payment rates. Under this bifurcated policy, the historic 8-percent HCO target was retained for LTCH PPS standard Federal payment rate cases, with the fixed-loss amount calculated using only data from LTCH cases that would have been paid at the LTCH PPS standard Federal payment rate if that rate had been in effect at the time of those discharges. For site neutral payment rate cases, we adopted the operating IPPS HCO target (currently 5.1 percent) and set the fixed-loss amount for site neutral payment rate cases at the value of the IPPS fixed-loss amount. Under the HCO policy for both payment rates, an LTCH receives 80 percent of the difference between the estimated cost of the case and the applicable HCO threshold, which is the sum of the LTCH PPS payment for the case and the applicable fixed-loss amount for such case.

   In order to maintain budget neutrality, consistent with the budget neutrality requirement at § 412.523(d)(1) for HCO payments to LTCH PPS standard Federal rate payment cases, we also adopted a budget neutrality requirement for HCO payments to site neutral payment rate cases by applying a budget neutrality factor to the LTCH PPS payment for those site neutral payment rate cases. (We refer readers to § 412.522(c)(2)(i) of the regulations for further details.) We note that, during the 4-year transitional period, the site neutral payment rate HCO budget neutrality factor did not apply to the LTCH PPS standard Federal payment rate portion of the blended payment rate at § 412.522(c)(3) payable to site neutral payment rate cases. (For additional details on the HCO policy adopted for site neutral payment rate cases under the dual rate LTCH PPS payment structure, including the budget neutrality adjustment for HCO payments to site neutral payment rate cases, we refer readers to the FY 2016 IPPS/LTCH PPS final rule (80 FR 49617 through 49623)).

2. **Determining LTCH CCRs Under the LTCH PPS**

   a. **Background**

      As noted previously, CCRs are used to determine payments for HCO adjustments for both payment rates under the LTCH PPS and also are used to determine payments for site neutral payment rate cases. As noted earlier, in determining HCO and the site neutral payment rate payments (regardless of whether the case is also an HCO), we generally calculate the estimated cost of the case by multiplying the LTCH’s overall CCR by the Medicare allowable charges for the case. An overall CCR is used because the LTCH PPS uses a single prospective payment per discharge that covers both inpatient operating and capital-related costs. The LTCH’s overall CCR is generally computed based on the sum of LTCH operating and capital costs (as described in Section 150.24, Chapter 3, of the Medicare Claims Processing Manual (Pub. 100–4)) as compared to total Medicare charges (that is, the sum of its operating and capital inpatient routine and ancillary charges), with those values determined from either the most recently settled cost report or the most recent tentatively settled cost report, whichever is from the latest cost reporting period.

      However, in certain instances, we use an alternative CCR, such as the statewide average CCR, a CCR that is specified by CMS, or one that is requested by the hospital. (We refer readers to § 412.525(a)(4)(iv) of the regulations for further details regarding CCRs and HCO adjustments for either LTCH PPS payment rate and § 412.522(c)(1)(ii) for the site neutral payment rate.)

      The LTCH’s calculated CCR is then compared to the LTCH total CCR ceiling. Under our established policy, an LTCH with a calculated CCR in excess of the applicable maximum CCR threshold (that is, the LTCH total CCR ceiling, which is calculated as 3 standard deviations from the national geometric average CCR) is generally assigned the applicable statewide CCR. This policy is premised on a belief that calculated CCRs, as previously noted, the LTCH total CCR ceiling are most likely due to faulty data reporting or entry, and CCRs based on erroneous data should not be used to identify and make payments for outlier cases.

   b. **Proposed LTCH Total CCR Ceiling**

      Ordinarily, for this FY 2022 proposed rule, we would use IPPS total CCR data from the December 2020 update of the Provider Specific File (PSF) for the purposes of calculating the proposed LTCH total CCR ceiling for FY 2022. However, for many IPPS hospitals, these IPPS total CCR data were derived from cost reports that ended during the COVID–19 PHE. As discussed in section VIII.A.4. of the preamble of this proposed rule, we believe the utilization patterns reflected in these cost reports were significantly impacted by the COVID–19 PHE. Since the IPPS total CCR data from the March 2020 update of the PSF was derived from cost reports ending prior to the COVID–19 PHE, we believe for the reasons discussed...
in section VIII.A.4. of the preamble of this proposed rule that these are the best available data at this time for the purposes of calculating the proposed LTCH total CCR ceiling for FY 2022. Therefore, in this proposed rule, using our established methodology for determining the LTCH total CCR ceiling but using the IPPS total CCR data from the March 2020 update of the PSF, we are proposing to establish an LTCH total CCR ceiling of 1.24 under the LTCH PPS for FY 2022 in accordance with § 412.525(a)(4)(ii) for HCO cases under either payment rate and § 412.522(c)(1)(iii) for the site neutral payment rate. Consistent with our historical practice, we are proposing to use the best available data, if applicable, to determine the LTCH total CCR ceiling for FY 2022 in the final rule. (For additional information on our methodology for determining the LTCH total CCR ceiling, we refer readers to the FY 2007 IPPS final rule (71 FR 48117 through 48119).)

c. Proposed LTCH Statewide Average CCRs

Our general methodology for determining the statewide average CCRs used under the LTCH PPS is similar to our established methodology for determining the LTCH total CCR ceiling because it is based on “total” IPPS CCR data. (For additional information on our methodology for determining statewide average CCRs under the LTCH PPS, we refer readers to the FY 2007 IPPS final rule (71 FR 48117 through 48120).) Under the LTCH PPS HCO policy at § 412.525(a)(4)(iv)(C), the SSO policy at § 412.525(f)(4)(iii), and the site neutral payment rate at § 412.522(c)(1)(iii), the MAC may use a statewide average CCR, which is established annually by CMS, if it is unable to determine an accurate CCR for an LTCH in one of the following circumstances: (1) New LTCHs that have not yet submitted their first Medicare cost report (a new LTCH is defined as an entity that has not accepted assignment from the hospital’s provider agreement in accordance with § 489.18); (2) LTCHs whose calculated CCR is in excess of the LTCH total CCR ceiling; and (3) other LTCHs for whom data with which to calculate a CCR are not available (for example, missing or faulty data). (Other sources of data that the MAC may consider in determining an LTCH’s CCR include data from a different cost reporting period for the LTCH, data from the cost reporting period preceding the period in which the hospital began to be paid as an LTCH (that is, the period of at least 6 months that it was paid as a short-term, acute care hospital), or data from other comparable LTCHs, such as LTCHs in the same chain or in the same region.

Ordinarily, for this proposed rule, we would use IPPS total CCR data from the December 2020 update of the PSF for the purposes of determining the LTCH statewide average CCRs for FY 2022. However, for many IPPS, these IPPS total CCR data were derived from cost reports that ended during the COVID–19 PHE. As discussed in section VIII.A.4 of the preamble of this proposed rule, we believe the utilization patterns reflected in these cost reports were significantly impacted by the COVID–19 PHE. Since the IPPS total CCR data from the March 2020 update of the PSF was derived from cost reports ending prior to the COVID–19 PHE, for the reasons discussed in section VIII.A.4. of the preamble of this proposed rule, we believe that these are the best available data at this time for the purposes of determining the LTCH statewide average CCRs for FY 2022. Therefore, in this proposed rule, using our established methodology for determining the LTCH statewide average CCRs, but based on IPPS “total CCR” data from the March 2020 update of the PSF, we are proposing to establish LTCH PPS statewide average total CCRs for urban and rural hospitals that would be effective for discharges occurring on or after October 1, 2021, through September 30, 2022, in Table 8C listed in section VI. of the Addendum to this proposed rule (and available via the internet on the CMS website). Consistent with our historical practice, we also are proposing to use the best available data, if applicable, to determine the LTCH statewide average total CCRs for FY 2022 in the final rule.

Under the current LTCH PPS labor market areas, all areas in Delaware, the District of Columbia, New Jersey, and Rhode Island are classified as urban. Therefore, there are no rural statewide average total CCRs listed for those jurisdictions in Table 8C. This policy is consistent with the policy that we established when we revised our methodology for determining the applicable LTCH statewide average CCRs in the FY 2007 IPPS final rule (71 FR 48119 through 48121) and is the same as the policy applied under the IPPS. In addition, although Connecticut has areas that are designated as rural, in our calculation of the LTCH statewide average CCRs, there were no short-term, acute care IPPS hospitals classified as rural or LTCHs located in these rural areas as of March 2020. Therefore, consistent with our existing methodology, we are proposing to use the national average total CCR for rural IPPS hospitals for rural Connecticut in Table 8C. While Massachusetts also has rural areas, the statewide average CCR for rural areas in Massachusetts is based on one IPPS provider whose CCR is an atypical 0.949. Because this is much higher than the statewide urban average (0.459) and furthermore implies costs are nearly equal to charges, as with Connecticut, we are proposing to use the national average total CCR for rural IPPS hospitals for rural Massachusetts in Table 8C. Furthermore, consistent with our existing methodology, in determining the urban and rural statewide average total CCRs for Maryland LTCHs paid under the LTCH PPS, we are proposing to continue to use, as a proxy, the national average total CCR for urban IPPS hospitals and the national average total CCR for rural IPPS hospitals, respectively. We are proposing to use this proxy because we believe that the CCR data in the PSF for Maryland hospitals may not be entirely accurate (as discussed in greater detail in the FY 2007 IPPS final rule (71 FR 48120)).

d. Reconciliation of HCO Payments

Under the HCO policy for cases paid under either payment rate at § 412.525(a)(4)(iv)(D), the payments for HCO cases are subject to reconciliation. Specifically, any such payments are reconciled at settlement based on the CCR that was calculated based on the cost report coinciding with the discharge. For additional information on the reconciliation policy, we refer readers to Sections 150.26 through 150.28 of the Medicare Claims Manual (Pub. 100–4), as added by Change Request 7192 (Transmittal 2111; December 3, 2010), and the FY 2009 LTCH PPS final rule (73 FR 26820 through 26821).

3. Proposed High-Cost Outlier Payments for LTCH PPS Standard Federal Payment Rate Cases

a. High-Cost Outlier Payments for LTCH PPS Standard Federal Payment Rate Cases

Under the regulations at § 412.525(a)(2)(ii) and as required by section 1886(m)(7) of the Act, the fixed-loss amount for HCO payments is set each year so that the estimated aggregate HCO payments for LTCH PPS standard Federal payment rate cases are 99.6875 percent of 8 percent (that is, 7.975 percent) of estimated aggregate LTCH PPS payments for LTCH PPS standard Federal payment rate cases. (For more details on the requirements for high-cost outlier payments in FY 2018 and subsequent years under section 1886(m)(7) of the Act and additional information regarding high-cost outlier payments prior to FY 2018, we refer readers to the FY 2018 IPPS/LTCH PPS final rule (82 FR 38542 through 38544).)

b. Proposed Fixed-Loss Amount for LTCH PPS Standard Federal Payment Rate Cases for FY 2022

When we implemented the LTCH PPS, we established a fixed-loss amount so that total estimated outlier payments are projected to equal 8 percent of total estimated payments (that is, the target percentage) under the LTCH PPS (67 FR 56022 through 56026). When we implemented the dual rate LTCH PPS payment structure beginning in FY 2016, we established that, in general, the historical LTCH PPS HCO policy would continue to apply to LTCH PPS standard Federal payment rate cases. That is, the fixed-loss amount for LTCH PPS standard Federal payment rate cases would be determined using the LTCH PPS HCO policy adopted under the LTCH PPS with the same parameters, but we limited the data used under that policy to LTCH cases that would have been LTCH PPS standard Federal payment rate cases if the statutory changes had been in effect at the time of those discharges. To determine the applicable fixed-loss amount for LTCH PPS standard Federal payment rate cases, we estimate outlier payments and total LTCH PPS payments for each LTCH PPS standard Federal payment rate case (or for each case that would have been a LTCH PPS standard Federal payment rate case if the statutory changes had been in effect at the time of the discharge) using claims data from the MedPAR files. In accordance with § 412.525(a)(2)(ii), the applicable fixed-loss amount for LTCH PPS standard Federal payment rate cases results in estimated total outlier payments being projected to equal to 7.975 percent of projected total LTCH PPS payments for LTCH PPS standard Federal payment rate cases.

In this proposed rule, we are proposing to adjust our methodology for calculating the
applicable fixed-loss amount for FY 2022 for LTCH PPS standard Federal payment rate cases, while maintaining estimated HCO payments at the projected 7.975 percent of total estimated LTCH PPS payments for LTCH PPS standard Federal payment rate cases. We are proposing to make a technical change to the methodology for determining the charge inflation factor that we apply to the charges on the MedPAR claims when calculating the proposed fixed-loss amount for FY 2022. We are also proposing a technical change to the methodology for determining the charge inflation factor and the CCRs we use when calculating the fixed-loss amount would become a permanent part of our methodology for subsequent years as well. These proposed technical changes are described in more detail in sections V.D.3.b.(1), and V.D.3.b.(2) of the Addendum to this proposed rule.

(1) Proposed Charge Inflation Factor for Use in Determining the Proposed Fixed-Loss Amount for LTCH PPS Standard Federal Payment Rate Cases for FY 2022

Under the LTCH PPS, the cost of each claim is estimated by multiplying the charges on the claim by the provider’s CCR. Due to the lag time in the availability of claims data, when estimating costs for the upcoming payment year we typically inflate the charges from the claims data by a uniform factor. Historically, as explained in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59056), when determining the fixed-loss amount, charges were inflated with a growth factor calculated from quarterly market basket update values (determined by the Office of the Actuary). However, an analysis of the annual increase in actual charges (or charge inflation rate) showed that the charges from the historical MedPAR claims compared with previous estimates using the quarterly market basket update values showed the actual charge inflation has been generally higher than the estimate. For example, when we set rates for FY 2019, we used a 2-year charge inflation factor of 5.7 percent based on the quarterly market basket update values. This factor was applied to charges from the FY 2017 MedPAR claims in order to inflate them to projected FY 2019 levels. However, our analysis of the actual FY 2019 MedPAR claims data shows that the actual growth in charges that occurred from FY 2017 to FY 2019 for standard Federal payment rate cases was 15.2 percent.

For greater accuracy in calculating the fixed-loss amount, we are proposing to make a technical change to our methodology for determining the charge inflation factor. Similar to the method used under the IPPS hospital payment methodology (as discussed in section II.A.4.h. of the Addendum to this proposed rule), we are proposing to determine the LTCH charge inflation factor based on the historical growth in charges for LTCH PPS standard Federal payment rate cases, calculated using historical MedPAR claims data, instead of using estimates calculated from quarterly market basket update values. In this proposed rule, we describe the general methodology we are proposing to use to calculate the charge inflation factor for FY 2022 and subsequent years. We discuss in greater detail later in this section our specific application of this proposal for FY 2022. Including the specific data we propose to use for FY 2022 after considering the impact the COVID–19 PHE had on the utilization patterns reflected in the FY 2020 LTCH data.

Step 1—Identify LTCH PPS standard Federal payment rate cases from the MedPAR claim files for the two most recently available Federal fiscal year time periods. For both fiscal years, we also remove claims from providers that only had claims in one of the fiscal years.

Step 2—Remove statistical outliers. The next step in our proposed methodology is to remove all claims from providers whose growth in average charges was a statistical outlier. We remove these statistical outliers prior to calculating the charge inflation factor because we believe they may represent aberrations in the data that would distort the measure of average charge growth. To perform this statistical trim, we first calculate each provider’s average charge growth. Then, we calculate a charge growth factor for each provider by dividing its average charge in the most recent fiscal year by its average charge in the prior fiscal year. We then remove all claims from providers whose calculated charge growth factor was outside 3 standard deviations from the mean provider charge growth factor.

Step 3—Calculate the charge inflation factor. The final step in our proposed methodology is to use the remaining claims to calculate a national charge inflation factor. We first calculate the average charge for those remaining claims in both fiscal years. We then calculate the national charge inflation factor by dividing the average charge in the more recent fiscal year by the average charge in the prior fiscal year.

As discussed in section VIII.A.4. of the preamble of this proposed rule, we are proposing to use the FY 2019 data for the FY 2022 LTCH PPS rate-setting in situations where the utilization patterns reflected in the FY 2020 data were significantly impacted by the COVID–19 PHE. For the purposes of calculating the proposed charge inflation factor for FY 2022, we are proposing to use the March 2020 update of the FY 2019 MedPAR file and the March 2019 update of the FY 2018 MedPAR file using our proposed methodology. To compute the 1-year average annual rate-of-change in charges per case for FY 2022, we compared the average covered charge per case of $195,362 ($13,926,931,065/71,288 cases) from FY 2019 to the average covered charge per case of $207,224 ($14,172,496,534/68,392 cases) from FY 2020. This rate-of-change was 6.0723 percent, resulting in a 1-year charge inflation factor of 1.060723, a proposed 2-year charge inflation factor of 1.125133 (calculated by squaring the proposed 1-year factor), and a proposed 3-year charge inflation factor of 1.193455 (calculated by cubing the proposed 2-year factor). We propose to inflate the billed charges obtained from the FY 2019 MedPAR file by this 3-year charge inflation factor of 1.193455 when determining the proposed fixed-loss amount for LTCH PPS standard Federal payment rate cases for FY 2022.

(2) Proposed CCRs for Use in Determining the Proposed Fixed-Loss Amount for LTCH PPS Standard Federal Payment Rate Cases for FY 2022

Historically, as explained in the FY 2021 IPPS/LTCH PPS final rule (85 FR 59055 through 59056), when determining the fixed-loss amount, we used CCRs from the most recently available PSF file without any adjustment. By not making any adjustment, we assumed that CCRs in the current year would, on average, stay at the same level in the upcoming year. However, after examining actual changes to LTCH CCRs over time, we no longer believe this to be an appropriate assumption to make, as the CCRs on average, LTCH CCRs have not stayed at the same level year-to-year. For example, when we set rates for FY 2019, we assumed that CCRs would stay at the same level as the CCRs obtained from the March 2018 PSF. However, our recent calculations show that on average, CCRs declined 3.8 percent from March 2018 to March 2019.

For greater accuracy in calculating the fixed-loss amount, we are proposing to adjust the methodology for determining the CCRs used to calculate the fixed-loss amount. Similar to the methodology used for IPPS hospitals (as discussed in section II.A.4.h.(2) of the Addendum to this proposed rule), we are proposing to adjust CCRs obtained from the most recently available PSF by an adjustment factor that is calculated based on historical changes in the average case weighted CCR for LTCHs. We believe these adjusted CCRs will more accurately reflect CCR levels in the upcoming payment year because they account for historical changes in the relationship between costs and charges for LTCHs. In this section, we describe the general methodology we are proposing to use to calculate the CCR adjustment factor for FY 2022 and subsequent years. We discuss in greater detail later in this section our specific application of this proposal for FY 2022.
including the specific data we propose to use after considering the impact the COVID–19 PHE had on the utilization patterns reflected in the FY 2020 LTCH data.

Step 1—Assign providers their historical CCRs. The first step in our proposed methodology is to identify providers with LTCH PPS standard Federal payment rate cases in the most recent MedPAR claims file (excluding all-inclusive rate providers and providers with only Medicare Advantage claims). For each of these providers, we then identify the CCR from the most recently available PSF. For each of these providers we also identify the CCR from the PSF that was made available one year prior to the most recently available PSF.

Step 2—Trim providers with insufficient CCR data. The next step in our proposed methodology is to remove from the CCR adjustment factor calculation any providers for which we cannot accurately measure changes in the CCR using the PSF data. We first remove any provider whose CCR was missing in the most recent PSF or prior year PSF. We next remove any provider assigned the statewide average CCR for their State in either the most recent PSF or prior year PSF. We lastly remove any provider whose CCR was not updated between the most recent PSF and prior year PSF (determined by comparing the effective date of the records).

Step 3—Remove statistical outliers. The next step in our proposed methodology is to remove providers whose charges in their CCR is a statistical outlier. To perform this statistical trim, for those providers remaining after application of Step 2, we calculate a provider-level CCR growth factor by dividing the provider’s CCR from the most recent PSF by its CCR in the prior year’s PSF. We then remove any provider whose CCR growth factor was outside 3 standard deviations from the mean provider CCR growth factor. These statistical outliers are removed prior to calculating the CCR adjustment factor because we believe that they may result in aberrations in the data that would distort the measure of average annual CCR change.

Step 4—Calculate the CCR adjustment factor. The final step in our proposed methodology is to calculate, across all remaining providers after application of Step 3, the average case-weighted CCR from both the most recent PSF and prior year PSF. The provider case counts that we use to calculate the case-weighted average are determined from claims for LTCH standard Federal rate cases from the most recent MedPAR claims file. We note when determining these case counts, consistent with our historical methodology for determining the MS–LTCH–DRG relative weights, we do not count short-stay-outlier claims as full cases but instead as a fraction of a case based on the ratio of the covered days to the geometric mean length of stay for the MS–LTCH–DRG grouped to the case. We calculate the national CCR adjustment factor by dividing the case-weighted CCR from the most recent PSF by the case-weighted CCR from the prior year PSF.

In this proposed rule, we are proposing to use the FY 2019 data for the FY 2022 LTCH PPS ratessetting in situations where the utilization patterns reflected in the FY 2020 data were significantly impacted by the COVID–19 PHE, for the reasons discussed in section VIII.A.4. of this proposed rule. Ordinarily, for this FY 2022 proposed rule, we would use CCR data from the December 2020 update of the PSF when determining the CCRs used for calculating the proposed fixed-loss amount for FY 2022. However, for many LTCHs, these CCR data were derived from cost reports that ended during the COVID–19 PHE. As also discussed in section VIII.A.4. of the preamble of this proposed rule, we believe the utilization patterns reflected in these cost reports were significantly impacted by the COVID–19 PHE. Therefore, for the purposes of determining the CCRs used for calculating the proposed fixed-loss amount for FY 2022, we are proposing to use the March 2020 PSF as the most recently available PSF and the March 2020 update of the PSF was made available one year prior to the most recently available PSF, as described in our proposed methodology.

Since the CCR data from the March 2020 update of the PSF was derived from cost reports ending prior to the COVID–19 PHE, as discussed in section VIII.A.1. of the preamble of this proposed rule, we believe these are the best available data at this time for the purposes of determining the CCRs used to calculate the proposed fixed-loss amount for FY 2022. In addition, we also are proposing to use claims from the March 2020 update of the FY 2020 MedPAR file in our calculation of average case-weighted CCRs described in Step 4 of our proposed methodology. As discussed in greater detail in section VIII.A.4. of the preamble of this proposed rule, due to the significant impact that the COVID–19 PHE had on the utilization patterns reflected in the FY 2020 MedPAR claims, we believe these are the best available data at this time for the purposes of calculating the average case-weighted CCRs.

Specifically, to calculate the CCRs we proposed to use in this proposed rule, we followed the proposed methodology described previously and, for providers with LTCH PPS standard Federal payment rate cases in the March 2020 update of the FY 2019 MedPAR file, we identified their CCRs from both the March 2019 PSF and March 2020 PSF. After performing the trims outlined in our proposed methodology, we used the LTCH PPS standard Federal payment rate case counts from the FY 2019 MedPAR file (classified using Version 39 of the GROUPPER) to calculate the case-weighted average CCRs. For this proposed rule, we calculated a proposed March 2019 national average case-weighted CCR of 0.256374 and a proposed March 2020 national average case-weighted CCR of 0.245617. We then calculated the national CCR adjustment factor by dividing the March 2020 national average case-weighted CCR by the March 2019 national average case-weighted CCR. This results in a proposed 1-year national CCR adjustment factor of 0.981555 and a proposed 2-year national CCR adjustment factor of 0.942866 (calculated by squaring the proposed 1-year factor). When calculating the proposed fixed-loss amount for FY 2022, we assigned the statewide average CCR for the upcoming fiscal year to all providers who were assigned the statewide average in the March 2020 PSF or whose CCR was missing in the March 2020 PSF. For all other providers, we multiplied their CCR from the March 2020 PSF by the proposed 2-year national CCR adjustment factor.

(3) Proposed Fixed-Loss Amount for LTCH PPS Standard Federal Payment Rate Cases for FY 2022

In this proposed rule, we are proposing no other changes to our methodology for calculating the proposed applicable fixed-loss amount for LTCH PPS standard Federal payment rate cases. Therefore, for FY 2022, using the best available data, we calculated a proposed fixed-loss amount that would maintain estimated HCO payments at the projected 7.975 percent of total estimated LTCH PPS payments for LTCH PPS standard Federal payment rate cases (based on the payment rates and policies for these cases presented in the proposed rule). As described earlier in this section and discussed in more detail in section VIII.A.4. of the preamble of this proposed rule, we believe the FY 2020 MedPAR claims were significantly impacted by COVID–19 PHE. As a result, we are proposing to use LTCH claims data from the March 2020 update of the FY 2019 MedPAR file to calculate a proposed fixed-loss amount for FY 2022. Therefore, based on LTCH claims data from the March 2020 update of the FY 2019 MedPAR file adjusted for charge inflation and adjusted CCRs from the March 2020 update of the PSF, under the broad authority of section 123(a)(1) of the BBRA and section 307(b)(1) of the BIPA, we are proposing a fixed-loss amount for LTCH PPS standard Federal payment rate cases for FY 2022 of $32,680 that would result in estimated outlier payment amounts that would be equal to 7.975 percent of estimated FY 2022 payments for such cases. We also are proposing to continue to make an additional HCO payment for the cost of an LTCH PPS standard Federal payment rate case that exceeds the HCO threshold amount that is equal to 80 percent of the difference between the estimated cost of the case and the outlier threshold (the sum of the proposed adjusted LTCH PPS standard Federal payment rate amount and the proposed fixed-loss amount for LTCH PPS standard Federal payment rate cases of $32,680).

Consistent with our historical practice, we are proposing to use the best available LTCH claims data and CCR data, if applicable, when determining the fixed-loss amount for LTCH PPS standard Federal payment rate cases for FY 2022 in the final rule.

4. Proposed High-Cost Outlier Payments for Site Neutral Payment Rate Cases

When we implemented the application of the site neutral payment rate in FY 2016, in examining the appropriate fixed-loss amount for site neutral payment rate cases issue, we considered how LTCH discharges based on historical claims data would have been classified under the dual rate LTCH PPS payment structure and the CMS’ Office of the
Actuarial projections regarding how LTCHs will likely respond to our implementation of policies resulting from the statutory payment changes. We again relied on these considerations and actuarial projections in FY 2017 and FY 2018 because the historical claims data for site neutral payment rate cases for each of those years were not all subject to the LTCH PPS dual rate payment system. Similarly, for FYs 2019 through 2021, we continued to rely on these considerations and actuarial projections because, due to the transitional blended payment policy for site neutral payment rate cases, FY 2018 and FY 2019 claims for these cases were not subject to the full effect of the site neutral payment rate.

For FYs 2016 through 2021, at that time our actuaries projected that the proportion of cases that would qualify as LTCH PPS standard Federal payment rate cases versus site neutral payment rate cases under the statutory provisions would remain consistent with what is reflected in the historical LTCH PPS claims data. Although our actuaries did not project a change in the proportions found in the historical data, they did project cost and resource changes to account for the lower payment rates. Our actuaries also projected that the costs and resource use for cases paid at the site neutral payment rate would likely be lower, on average, than the costs and resource use for cases paid at the LTCH PPS standard Federal payment rate and would likely mirror the costs and resource use for IPPS cases assigned to the same MS–DRG, regardless of whether the proportion of site neutral payment rate cases in the future remains similar to what is found based on the historical data. As discussed in the FY 2016 IPPS/LTCH PPS final rule (80 FR 49619), this actuarial assumption is based on our expectation that site neutral payment rate cases would generally be paid based on an IPPS comparable per diem amount under the statutory LTCH PPS payment changes that began in FY 2016, which, in the majority of cases, is much lower than the payment that would have been paid if these statutory changes had not been made. In light of these projections and expectations, we discussed that we believed that the use of a single fixed-loss amount for site neutral payment rate cases assigned to the same MS–DRG, regardless of whether the proportion of site neutral payment rate cases in the future remains similar to what is found based on the historical data.

Historically, the determination of both the IPPS comparable amount under the SSO policy at § 412.529 and the calculation of the "IPPS comparable amount" under section 3133 of the Affordable Care Act in the calculation of the "IPPS comparable amount" under § 412.522(c)(1)(i), of the Addendum to this proposed rule. Accordingly, for FY 2022, we are proposing to calculate a HCO payment for site neutral payment rate cases with costs that exceed the HCO threshold amount that is equal to 80 percent of the estimated cost of the case and the outlier threshold (the sum of the site neutral payment rate payment and the proposed IPPS fixed-loss amount). That is, we are proposing a fixed-loss amount for site neutral payment rate cases at § 412.526(f)(1). We note that, consistent with our current policy, this proposed HCO budget neutrality adjustment would not be applied to the HCO portion of the site neutral payment rate amount (81 FR 57309).

E. Proposed Update to the IPPS Comparable Amount To Reflect the Statutory Changes to the IPPS DSH Payment Adjustment Methodology

In the FY 2014 IPPS/LTCH PPS final rule (78 FR 50766), we established a policy to reflect the changes to the Medicare IPPS DSH payment adjustment methodology made by section 3133 of the Affordable Care Act in the calculation of the "IPPS comparable amount" under the SSO policy at § 412.529 and the "IPPS equivalent amount" under the site neutral payment rate at § 412.522.

Historically, the determination of both the "IPPS comparable amount" and the "IPPS equivalent amount" included a factor for uncompensated care for the "costs of serving a disproportionate share of low-income patients." Under the statutory changes to the Medicare DSH payment adjustment methodology that began in FY 2014, in general, eligible IPPS hospitals receive an empirically justified Medicare DSH payment equal to 25 percent of the amount they otherwise would have received under the statutory formula for Medicare DSH payments prior to the amendments made by the Affordable Care Act. The remaining amount, equal to an estimate of 75 percent of the amount that otherwise would have been paid as Medicare DSH payments, reduced to reflect changes in the percentage of individuals who are uninsured and any additional statutory adjustment, is made available to make additional amounts to each hospital that qualifies for Medicare DSH payments and that has uncompensated care. The additional uncompensated care payments are based on the hospital’s amount of uncompensated care for a given time period relative to the total amount of uncompensated care for that same time.
period reported by all IPPS hospitals that receive Medicare DSH payments.

To reflect the statutory changes to the Medicare DSH payment adjustment methodology in the calculation of the “IPPS comparable amount” and the “IPPS equivalent amount” under the LTCH PPS, we stated that we will include a reduced Medicare DSH payment amount that reflects the projected percentage of the payment amount calculated based on the statutory Medicare DSH payment formula prior to the amendments made by the Affordable Care Act that will be paid to eligible IPPS hospitals as empirically justified Medicare DSH payments and uncompensated care payments to eligible IPPS hospitals in that year (that is, a percentage of the operating Medicare DSH payment amount that has historically been reflected in the LTCH PPS payments that are based on IPPS rates). We also stated that the projected percentage will be updated annually, consistent with the annual determination of the amount of uncompensated care payments that will be made to eligible IPPS hospitals. We believe that this approach results in appropriate payments under the LTCH PPS and is consistent with our intention that the “IPPS comparable amount” and the “IPPS equivalent amount” under the LTCH PPS closely resemble what an IPPS payment would have been for the same episode of care, while recognizing that some features of the IPPS cannot be translated directly into the LTCH PPS (79 FR 50766 through 50767).

For FY 2022, as discussed in greater detail in section V.E.4.b. of the preamble of this proposed rule, based on the most recent data available, our estimate of 75 percent of the amount that would otherwise have been paid as Medicare DSH payments (under the methodology outlined in section 1886(r)(2) of the Act) is adjusted to 74.14 percent of that amount to reflect the change in the percentage of individuals who are uninsured. The resulting amount is then used to determine the amount available to make uncompensated care payments to eligible IPPS hospitals as empirically justified Medicare DSH payments to eligible IPPS hospitals. In other words, the amount of the Medicare DSH payments that would have been made prior to the amendments made by the Affordable Care Act is adjusted to 54.11 percent (the product of 75 percent and 72.14 percent) and the resulting amount is used to calculate the uncompensated care payments to eligible hospitals. As a result, for FY 2022, we project that the reduction in the amount of Medicare DSH payments pursuant to section 1886(r)(1) of the Act, along with the payments for uncompensated care under section 1886(r)(2) of the Act, will result in overall Medicare DSH payments of 79.11 percent of the amount of Medicare DSH payments that would otherwise have been made in the absence of the amendments made by the Affordable Care Act (that is, 25 percent + 54.11 percent = 79.11 percent).

Therefore, for FY 2022, we are proposing to establish that the calculation of the “IPPS comparable amount” under §412.529 would include an applicable operating Medicare DSH payment amount that is equal to 79.11 percent of the operating Medicare DSH payment amount that would have been paid based on the statutory Medicare DSH payment formula absent the amendments made by the Affordable Care Act. Furthermore, consistent with our historical practice, we are proposing that, if more recent data became available, we would use that data to determine this factor in the final rule.

F. Computing the Proposed Adjusted LTCH PPS Federal Prospective Payments for FY 2022

Section 412.525 sets forth the adjustments to the LTCH PPS standard Federal payment rate. Under the dual rate LTCH PPS payment structure, only LTCH PPS cases that meet the statutory criteria to be excluded from the site neutral payment rate are paid based on the LTCH PPS standard Federal payment rate. Under §412.525(c), the LTCH PPS standard Federal payment rate is adjusted to account for differences in area wages by multiplying the labor-related share of the LTCH PPS standard Federal payment rate for a case by the applicable LTCH wage index (the FY 2022 values are shown in Tables 12A through 12B listed in section VI. of the Addendum to this proposed rule and available via the internet on the CMS website). The LTCH PPS standard Federal payment rate is also adjusted to account for the higher costs of LTCHs located in Alaska and Hawaii by the applicable COLA factors (the proposed FY 2022 factors are shown in the chart in section V.C. of this Addendum) in accordance with §412.525(b). In this proposed rule, we are proposing to establish an LTCH PPS standard Federal payment rate for FY 2022 of $44,827.87, as discussed in section V.A. of the Addendum to this proposed rule. We illustrate the methodology to adjust the proposed LTCH PPS standard Federal payment rate for FY 2022 in the following example:

Example:
During FY 2022, a Medicare discharge that meets the criteria to be excluded from the site neutral payment rate, that is, an LTCH PPS standard Federal payment rate case, is from an LTCH that is located in CBSA 16984, which has a proposed FY 2022 LTCH PPS wage index value of 1.0392 (obtained from Table 12A listed in section VI. of the Addendum to this proposed rule and available via the internet on the CMS website). The Medicare patient case is classified into proposed MS–LTC–DRG 189 (Pulmonary Edema & Respiratory Failure), which has a proposed relative weight for FY 2022 of 0.9448 (obtained from Table 11 listed in section VI. of the Addendum to this proposed rule and available via the internet on the CMS website). The LTCH submitted quality reporting data for FY 2022 in accordance with the LTCH QRP under section 1886(m)(5) of the Act.

To calculate the LTCH’s total adjusted proposed Federal prospective payment for this Medicare patient case in FY 2022, we computed the wage-adjusted Federal prospective payment amount by multiplying the unadjusted proposed FY 2022 LTCH PPS standard Federal payment rate ($44,827.87) by the proposed labor-related share (0.68 percent) and the proposed wage index value (1.0392). This wage-adjusted amount was then added to the nonlabor-related portion of the unadjusted proposed LTCH PPS standard Federal payment rate (0.32 percent; adjusted for cost of living, if applicable) to determine the adjusted proposed LTCH PPS standard Federal payment rate, which is then multiplied by the proposed MS–LTC–DRG relative weight (0.9448) to calculate the total adjusted proposed LTCH PPS standard Federal prospective payment for FY 2022 ($43,482.34). The table illustrates the components of the calculations in this example.

<table>
<thead>
<tr>
<th>Unadjusted Proposed LTCH PPS Standard Federal Prospective Payment Rate</th>
<th>$44,827.87</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Labor-Related Share</td>
<td>x 0.68</td>
</tr>
<tr>
<td>Proposed Wage Index (CBSA 16984)</td>
<td>x 1.0392</td>
</tr>
<tr>
<td>Proposed Wage-Adjusted Labor Share of the LTCH PPS Standard Federal Payment Rate</td>
<td>$31,677.88</td>
</tr>
<tr>
<td>Proposed Nonlabor-Related Portion of the LTCH PPS Standard Federal Payment Rate ($44,827.87 x 0.32)</td>
<td>+ $14,344.92</td>
</tr>
<tr>
<td>Adjusted Proposed LTCH PPS Standard Federal Payment Amount</td>
<td>$46,022.80</td>
</tr>
<tr>
<td>Proposed MS-LTC-DRG 189 Relative Weight</td>
<td>x 0.9448</td>
</tr>
<tr>
<td>Total Adjusted Proposed LTCH PPS Standard Federal Prospective Payment</td>
<td>$43,482.34</td>
</tr>
</tbody>
</table>
VI. Tables Referenced in This Proposed Rule Generally Available Through the Internet on the CMS Website

This section lists the tables referred to throughout the preamble of this proposed rule and in the Addendum. In the past, a majority of these tables were published in the Federal Register as part of the annual proposed and final rules. However, similar to FYs 2012 through 2021, for the FY 2022 rulemaking cycle, the IPPS and LTCH PPS tables will not be published in the Federal Register in the annual IPPS/LTCH PPS proposed and final rules and will be available through the internet. Specifically, all IPPS tables listed in the proposed rule, with the exception of IPPS Tables 1A, 1B, 1C, and 1D, and LTCH PPS Table 1E, will generally be available through the internet. IPPS Tables 1A, 1B, 1C, and 1D, and LTCH PPS Table 1E are displayed at the end of this section and will continue to be published in the Federal Register as part of the annual proposed and final rules. For additional discussion of the information included in the IPPS and LTCH PPS tables associated with the IPPS/LTCH PPS proposed and final rules, as well as prior changes to the information included in these tables, we refer readers to the FY 2021 IPPS/LTCH PPS final rule (85 FR 59059 through 59060).

In addition, under the HAC Reduction Program, established by section 3008 of the Affordable Care Act, a hospital’s total payment may be reduced by 1 percent if it is in the lowest HAC performance quartile. The hospital-level data for the FY 2022 HAC Reduction Program will be made publicly available once it has undergone the review and corrections process. As was the case for the FY 2021 IPPS/LTCH PPS proposed and final rules, we are no longer including Table 15, which had typically included the fiscal year readmissions payment adjustment factors because hospitals have not yet had the opportunity to review and correct the data before the data are made public under our policy regarding the reporting of hospital-specific data. After hospitals have been given an opportunity to review and correct their calculations for FY 2022, we will post Table 15 (which will be available via the internet on the CMS website) to display the final FY 2022 readmissions payment adjustment factors that will be applicable to discharges occurring on or after October 1, 2021. We expect Table 15 will be posted on the CMS website in the fall of 2021.

Readers who experience any problems accessing any of the tables that are posted on the CMS websites identified in this proposed rule should contact Michael Treitel at (410) 786-4552.

The following IPPS tables for this proposed rule are generally available through the internet on the CMS website: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientIPPS/index.html. Click on the link on the left side of the screen titled, “FY 2022 IPPS Proposed rule Home Page” or “Acute Inpatient -Files for Download.” We refer readers to section I.O. of the Appendix A of this proposed rule for a discussion of the supplemental data files based on the use of the FY 2020 data that we would ordinarily use for FY 2022 ratesetting, which we are also making available on the CMS website.

Table 2.—Proposed Case-Mix Index and Wage Index Table by CCN—FY 2022 Proposed Rule
Table 3.—Proposed Wage Index Table by CBSA—FY 2022 Proposed Rule
Table 4A.—Proposed List of Counties Eligible for the Out-Migration Adjustment under Section 1886(d)(15) of the Act—FY 2022 Proposed Rule
Table 4B.—Counties Redesignated under Section 1886(d)(8)(B) of the Act (LUGAR Counties)—FY 2022 Proposed Rule
Table 5.—Proposed List of Medicare Severity Diagnosis-Related Groups (MS–DRGs), Relative Weighting Factors, and Geometric and Arithmetic Mean Length of Stay—FY 2022
Table 6A.—New Diagnosis Codes—FY 2022
Table 6B.—New Procedure Codes—FY 2022
Table 6C.—Invalid Diagnosis Codes—FY 2022
Table 6D.—Invalid Procedure Codes—FY 2022
Table 6E.—Revised Diagnosis Code Titles—FY 2022
Table 6G.1.—Proposed Secondary Diagnosis Order Additions to the CC Exclusions List—FY 2022
Table 6G.2.—Proposed Principal Diagnosis Order Additions to the CC Exclusions List—FY 2022
Table 6H.1.—Proposed Secondary Diagnosis Order Deletions to the CC Exclusions List—FY 2022
Table 6H.2.—Proposed Principal Diagnosis Order Deletions to the CC Exclusions List—FY 2022
Table 6I.1.—Proposed Additions to the MCC List—FY 2022
Table 6I.2.—Proposed Deletions to the MCC List—FY 2022
Table 6J.1.—Proposed Additions to the CC Exclusions List—FY 2022
Table 6K.—Proposed List of Medicare Severity-Related Groups (MS–DRGs), Relative Weighting Factors, and Geometric and Arithmetic Mean Length of Stay: LUGAR Counties—FY 2022
Table 7A.—Proposed Medicare Prospective Payment System Selected Percentile Lengths of Stay: FY 2019 MedPAR Update March 2020—GROUPER Version 38 MS–DRGs
Table 8A.—Proposed FY 2022 Statewide Average Operating Cost-to-Charge Ratios (CCRAs) for Acute Care Hospitals (Urban and Rural)
Table 8B.—Proposed FY 2022 Statewide Average Capital Cost-to-Charge Ratios (CCRAs) for Acute Care Hospitals
Table 16.—Proxy Hospital Value-Based Purchasing (VBP) Program Adjustment Factors That Would Apply for FY 2022 If Our Proposals to Revise the Scoring and Payment Methodology For That Program Year Are Not Finalized
Table 18.—Proposed FY 2022 Medicare DSH Uncompensated Care Payment Factor

The following LTCH PPS tables for this FY 2022 proposed rule are available through the internet on the CMS website: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/LongTermCareHospitalIPPS/index.html under the list item for Regulation Number CMS–1752–P.

Table 8C.—Proposed FY 2022 Statewide Average Total Cost-to-Charge Ratios (CCRAs) for LTCHs (Urban and Rural)
Table 11.—Proposed MS–LTC–DRGs, Relative Weights, Geometric Average Length of Stay, and Short-Stay Outlier (SSO) Threshold for LTCH PPS Discharges Occurring from October 1, 2021 through September 30, 2022
Table 12A.—Proposed LTCH PPS Wage Index for Urban Areas for Discharges Occurring from October 1, 2021 through September 30, 2022
Table 12B.—Proposed LTCH PPS Wage Index for Rural Areas for Discharges Occurring from October 1, 2021 through September 30, 2022

Table 6P.—ICD–10–CM and ICD–10–PCS Codes for Proposed MS–DRG Changes—FY 2022 (Table 6P contains multiple tables, 6P.1a. through 6P.3a. that include the ICD–10–CM and ICD–10–PCS code lists relating to specific proposed MS–DRG changes. These tables are referred to throughout section I.D. of the preamble of this proposed rule.)
### TABLE 1A. — PROPOSED NATIONAL ADJUSTED OPERATING STANDARDIZED AMOUNTS, LABOR/NONLABOR (67.6 PERCENT LABOR SHARE/32.4 PERCENT NONLABOR SHARE IF WAGE INDEX IS GREATER THAN 1)—FY 2022

<table>
<thead>
<tr>
<th>Hospital Submitted Quality Data and is a Meaningful EHR User (Update = 2.3 Percent)</th>
<th>Hospital Submitted Quality Data and is NOT a Meaningful EHR User (Update = 0.425 Percent)</th>
<th>Hospital Did NOT Submit Quality Data and is a Meaningful EHR User (Update = 1.675 Percent)</th>
<th>Hospital Did NOT Submit Quality Data and is NOT a Meaningful EHR User (Update = -0.2 Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>Nonlabor</td>
<td>Labor</td>
<td>Nonlabor</td>
</tr>
<tr>
<td>$4,150.84</td>
<td>$1,989.45</td>
<td>$4,074.76</td>
<td>$1,952.99</td>
</tr>
</tbody>
</table>

### TABLE 1B. — PROPOSED NATIONAL ADJUSTED OPERATING STANDARDIZED AMOUNTS, LABOR/NONLABOR (62 PERCENT LABOR SHARE/38 PERCENT NONLABOR SHARE IF WAGE INDEX IS LESS THAN OR EQUAL TO 1)—FY 2022

<table>
<thead>
<tr>
<th>Hospital Submitted Quality Data and is a Meaningful EHR User (Update = 2.3 Percent)</th>
<th>Hospital Submitted Quality Data and is NOT a Meaningful EHR User (Update = 0.425 Percent)</th>
<th>Hospital Did NOT Submit Quality Data and is a Meaningful EHR User (Update = 1.675 Percent)</th>
<th>Hospital Did NOT Submit Quality Data and is NOT a Meaningful EHR User (Update = -0.2 Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>Nonlabor</td>
<td>Labor</td>
<td>Nonlabor</td>
</tr>
<tr>
<td>$3,806.98</td>
<td>$2,333.31</td>
<td>$3,737.21</td>
<td>$2,290.54</td>
</tr>
</tbody>
</table>

### TABLE 1C. — PROPOSED ADJUSTED OPERATING STANDARDIZED AMOUNTS FOR HOSPITALS IN PUERTO RICO, LABOR/NONLABOR (NATIONAL: 62 PERCENT LABOR SHARE/38 PERCENT NONLABOR SHARE BECAUSE WAGE INDEX IS LESS THAN OR EQUAL TO 1);—FY 2022

<table>
<thead>
<tr>
<th>Rates if Wage Index Greater Than 1</th>
<th>Hospital is a Meaningful EHR User and Wage Index Less Than or Equal to 1 (Update = 2.3)</th>
<th>Hospital is NOT a Meaningful EHR User and Wage Index Less Than or Equal to 1 (Update = 1.675)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>Nonlabor</td>
<td>Labor</td>
</tr>
<tr>
<td>National¹</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

¹ For FY 2022, there are no CBSAs in Puerto Rico with a national wage index greater than 1.
TABLE 1D.— PROPOSED CAPITAL STANDARD FEDERAL PAYMENT RATE—FY 2022

<table>
<thead>
<tr>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
</tr>
</tbody>
</table>

TABLE 1E.— LTCH PPS STANDARD FEDERAL PAYMENT RATE—FY 2022

<table>
<thead>
<tr>
<th>Standard Federal Rate</th>
<th>Full Update (2.2 Percent)</th>
<th>Reduced Update* (0.2 Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$44,827.87</td>
<td>$43,950.62</td>
</tr>
</tbody>
</table>

* For LTCHs that fail to submit quality reporting data for FY 2022 in accordance with the LTCH Quality Reporting Program (LTCH QRP), the annual update is reduced by 2.0 percentage points as required by section 1886(m)(5) of the Act.
The prospective payment systems for hospital inpatient operating and capital-related costs of acute care hospitals encompass most general short-term, acute care hospitals that participate in the Medicare program. There were 27 Indian Health Service hospitals in our database, which we excluded from the analysis due to the special characteristics of the prospective payment methodology for these hospitals. Among other short term, acute care hospitals, hospitals in Maryland are paid in accordance with the Maryland Total Cost of Care Model, and hospitals located outside the 50 States, the District of Columbia, and Puerto Rico (that is, 6 short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa) receive payment for inpatient hospital services they furnish on the basis of reasonable costs, subject to a rate-of-increase ceiling.

As discussed in section II.A.4 of the Addendum to this proposed rule, consistent with our proposed use of the Provider Specific File (PSF), we included 3,198 IPPS acute care hospitals. Among these hospitals, this represents approximately 54 percent of all Medicare-participating hospitals. The majority of this impact analysis focuses on this set of hospitals. There also are approximately 1,417 CAHs. These small, limited-service hospitals are paid on the basis of reasonable costs, rather than under the IPPS. IPPS-excluded hospitals and units, which are paid under separate payment systems, include IPFs, IRFs, LTCHs, RNHCIs, children’s hospitals, cancer hospitals, extended neoplastic disease care hospital, and short-term acute care hospitals located in the Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa. Changes in the prospective payment systems for IPFs and IRFs are made through separate rulemaking. Payment impacts of proposed changes to the prospective payment systems for these IPPS-excluded hospitals and units are not included in this proposed rule. The impact of the proposed update and policy changes to the LTCH PPS for FY 2022 is discussed in section I.J. of this Appendix.

F. Effects on Hospitals and Hospital Units Excluded From the IPPS

As discussed in section II.A.4 of the Addendum to this proposed rule, consistent with our proposed use of the PSF, there were 95 children’s hospitals, 11 cancer hospitals, and 6 short-term acute care hospitals located in the Virgin Islands, Guam, the Northern Mariana Islands and American Samoa, 1 extended neoplastic disease care hospital, and 15 RNHCIs being paid on a reasonable cost basis subject to the rate-of-increase ceiling under §413.40. (In accordance with §403.752(a) of the regulation, RNHCIs are paid under §413.40.) Among the remaining providers, the rehabilitation hospitals and units, and the LTCHs, are paid the Federal prospective payment rate under the IRF PPS and the LTCH PPS, respectively, and the psychiatric hospitals and units are paid the Federal per diem amount under the IPF PPS. As stated previously, IRFs and IPPS are not affected by the proposed rate updates discussed in this proposed rule. The effects of the proposed changes on LTCHs are discussed in section I.J. of this Appendix.

The children’s hospitals, cancer hospitals, short-term acute care hospitals located in the Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa, the extended neoplastic disease care hospital, and RNHCIs, the proposed update of the rate-of-increase limit (or target amount) is the estimated FY 2022 percentage increase in the proposed 2018-based IPPS operating market basket, consistent with section 1886(b)(2) of the Act, and §403.752(a) and 413.40 of the regulations. Consistent with current law, based on IGI’s 2020 fourth quarter forecast of the proposed 2018-based IPPS market basket increase, we are estimating the proposed FY 2022 update to be 2.5 percent (that is, the estimate of the market basket rate-of-increase), as discussed in section IV.A. of the preamble of this proposed rule. We are proposing that if more recent data become available for the final rule, we would use such data, if appropriate, to calculate the IPPS operating market basket update for FY 2022. However, the Affordable Care Act requires an adjustment for multifactor productivity (proposed 0.2 percentage point reduction for FY 2022), resulting in a proposed 2.3 percent applicable percentage increase for IPPS hospitals that submit quality data and are meaningful EHR users. As discussed in section IV.A. of the preamble of this proposed rule. Children’s hospitals, cancer hospitals, short term acute care hospitals located in the Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa, the extended neoplastic disease care hospital, and RNHCIs that continue to be paid based on reasonable costs subject to rate-of-increase limits under §413.40 of the regulations are not subject to the reductions in the applicable percentage increase required under the Affordable Care Act. Therefore, for those hospitals paid under §413.40 of the regulations, the proposed update is the percentage increase in the proposed 2018-based IPPS operating market basket for FY 2022, estimated at 2.5 percent. The impact of the proposed update in the rate-of-increase limit on those excluded hospitals depends on the cumulative cost increases experienced by each excluded hospital since its applicable base period. For excluded hospitals that have maintained their cost increases at a level below the rate-of-increase limits since their base period, the major effect is on the level of incentive payments these excluded hospitals receive. Conversely, for excluded hospitals with cost increases above the cumulative update in their rate-of-increase limits, the major effect is the amount of excess costs that would not be paid.

We note that, under §413.40(d)(3), an excluded hospital that continues to be paid under the TEFRS system and whose costs exceed 110 percent of the limit receives its rate-of-increase limit plus the lesser of: (1) 50 percent of its reasonable costs in excess of 110 percent of the limit; or (2) 10 percent of its limit. In addition, under the various provisions set forth in §413.40, hospitals can obtain payment adjustments for justifiable increases in operating costs that exceed the limit.

G. Quantitative Effects of the Proposed Policy Changes Under the IPPS for Operating Costs

1. Basis and Methodology of Estimates

In this proposed rule, we are announcing proposed policy changes and payment rate updates for the IPPS for FY 2022 for operating costs of acute care hospitals. The proposed FY 2022 updates to the capital payments to acute care hospitals are discussed in section I.J. of this Appendix.

The proposed policy changes in payments per case estimated using our payment simulation model, we estimate that total FY 2022 operating payments would increase by 2.7 percent, compared to FY 2021. In addition to the proposed applicable percentage increase, this amount reflects the proposed +0.5 percentage point permanent
adjustment to the standardized amount required under section 414 of MACRA. The impacts do not reflect changes in the number of hospital admissions or real case-mix intensity, which would also affect overall payment changes.

We estimated separate impact analyses of the proposed changes to each system. This section deals with the proposed changes to the operating inpatient prospective payment system for acute care hospitals. Our payment simulation model relies on the best available data to estimate the impacts on payments per case of certain proposed changes in this proposed rule. As discussed in Section I.A of this proposed rule, we believe that the FY 2010 claims data is the best available data for purposes of the proposed FY 2022 ratesetting and this impact analysis reflects the use of that data. However, there are other proposed changes for which we do not have data available that would allow us to estimate the payment impacts using this model. For those proposed changes, we attempted to predict the payment impacts based upon our experience and other more limited data.

The data used in developing the quantitative analyses of proposed changes in payments per case presented in this section are taken from the FY 2019 MedPAR file and are consistent with our proposed use of Provider-Specific File (PSF) data, as discussed previously in this proposed rule. Although the analyses of the proposed changes to the operating PPS do not incorporate cost data, data from the best available sources are used to categorize hospitals in the tables. In some cases, particularly the number of beds, there is a fair degree of variation in the data from the different sources. We have attempted to construct these variables with the best available source overall. However, for individual hospitals, miscategorizations are possible.

Using cases from the FY 2019 MedPAR file, we simulate payments under the operating IPPS given various combinations of payment parameters. As described previously, Indian Health Service hospitals and hospitals in Maryland were excluded from the simulations. The impact of proposed payments under the capital IPPS, and the impact of proposed payments for costs other than inpatient operating costs, are not anticipated. Estimated payment impacts of the capital IPPS and outpatient IPPS are set at 5.1 percent of total operating MS–DRG and outlier payments for modeling purposes.

Section 1866(b)(3)[(i) of the Act, as added by section 7001(a) of Public Law 109–171, as amended by section 4102(b)(1)(A) of the ARRA (Pub. L. 111–5) and by section 3401(a)(2) of the Affordable Care Act (Pub. L. 111–148), provides that, for FY 2007 and each subsequent year through FY 2014, the update factor will include a reduction of 2.0 percentage points on the standard update factor for hospital that does not submit data on

market basket update. Therefore, we are proposing that, hospitals that do not submit quality information under rules established by the Secretary and that are meaningful EHR users under section 1886(b)(3)(B)(i) of the Act would receive a proposed applicable percentage increase of 1.675 percent. For the time this impact was prepared, 65 hospitals are estimated to not receive the full market basket rate-of-increase for FY 2022 because they failed the quality data submission process or did not choose to participate, but are meaningful EHR users. For purposes of the simulations shown later in this section, we modeled the proposed payment changes for FY 2022 using a reduced update for these hospitals.

For FY 2022, in accordance with section 1886(b)(3)(B)(ix) of the Act, a hospital that has been identified as not a meaningful EHR user will be subject to a reduction of three-quarters of such applicable percentage increase determined without regard to section 1886(b)(3)(B)(ix), (x), or (xi) of the Act. Therefore, we are estimating that hospitals that are identified as not meaningful EHR users and do submit quality information under section 1886(b)(3)(B)(viii) of the Act would receive an applicable percentage increase of 0.425 percent. At the time this impact analysis was prepared, 105 hospitals are estimated to not receive the full market basket rate-of-increase for FY 2022 because they are identified as not meaningful EHR users that do submit quality information under section 1886(b)(3)(B)(viii) of the Act. For purposes of the simulations shown in this section, we modeled the proposed payment changes for FY 2022 using a reduced update for these hospitals.

Hospitals that are identified as not meaningful EHR users under section 1886(b)(3)(B)(ix) of the Act and also do not submit quality data under section 1886(b)(3)(B)(viii) of the Act would receive a proposed applicable percentage increase of 0.2 percentage points, which reflects a one-quarter reduction of the market basket update for failure to submit quality data and a three-quarters reduction for not being identified as not a meaningful EHR user. At the time this impact was prepared, 24 hospitals are estimated to not receive the full market basket rate-of-increase for FY 2022 because they are identified as not meaningful EHR users that do not submit quality data under section 1886(b)(3)(B)(viii) of the Act.

Each proposed policy change, statutory or otherwise, is then added incrementally to this baseline, finally arriving at an FY 2022 model incorporating all of the proposed changes. This simulation allows us to isolate the effects of each change.

Our comparison illustrates the proposed percent change in payments per case from FY 2021 to FY 2022. Two factors not discussed separately have significant impacts here. The first factor is the updated standardized amount. In accordance with section 1886(b)(3)(B)(i) of the Act, we are proposing to update the standardized amounts for FY 2022 using a proposed applicable percentage increase of 2.3 percent. This includes our forecasted IPPS operating hospital market basket increase of 2.5 percent with a
proposed 0.2 percentage point reduction for the multifactor productivity adjustment. Hospitals that fail to comply with the quality data submission requirements and are meaningful EHR users would receive a proposed update of 1.675 percent. This update includes a reduction of one-quarter of the market basket update for failure to submit these data. Hospitals that do comply with the quality data submission requirements but are not meaningful EHR users would receive a proposed update of 0.425 percent, which includes a reduction of three-quarters of the market basket update. Hospitals that do not comply with the quality data submission requirements and also are not meaningful EHR users would receive a proposed update of 0.2 percent. Under section 1886(b)(3)(B)(iv) of the Act, the update to the hospital-specific amounts for SCHs and MDHs is also equal to the applicable percentage increase, or 2.3 percent, if the hospital submits quality data and is a meaningful EHR user.

A second significant factor that affects the proposed changes in hospitals’ payments per case from FY 2021 to FY 2022 is the change in hospitals’ geographic reclassification status from one year to the next. That is, payments may be reduced for hospitals reclassified in FY 2021 that are no longer classified in FY 2022. Conversely, payments may increase for hospitals not reclassified in FY 2021 that are reclassified in FY 2022.

2. Analysis of Table I

Table I displays the results of our analysis of the proposed changes for FY 2022. The table categorizes hospitals by various geographic and special payment consideration groups to illustrate the varying impacts on different types of hospitals. The top row of the table shows the overall impact on the 3,198 acute care hospitals included in the analysis.

The next two rows of Table I contain hospitals categorized according to their geographic location: Urban and rural. There are 2,459 hospitals located in urban areas and 739 hospitals in rural areas included in our analysis. The next two groupings are by bed-size categories, shown separately for urban and rural hospitals. The last groupings by geographic location are by census divisions, also shown separately for urban and rural hospitals.

The second part of Table I shows hospital groups based on hospitals’ FY 2022 payment classifications, including any reclassifications under section 1886(d)(10) of the Act. For example, the rows labeled urban and rural show that the numbers of hospitals paid based on these categorizations after consideration of geographic reclassifications (including reclassifications under sections 1886(d)(8)(B) and 1886(d)(8)(E) of the Act that have implications for capital payments) are 1,965, and 1,233, respectively.

The next three groupings examine the impacts of the proposed changes on hospitals grouped by whether or not they have GME residency programs (teaching hospitals that receive an IME adjustment) or receive Medicare DSH payments, or some combination of these two adjustments. There are 2,034 nonteaching hospitals in our analysis, 907 teaching hospitals with fewer than 100 residents, and 257 teaching hospitals with 100 or more residents. In the DSH categories, hospitals are grouped according to their DSH payment status, and whether they are considered urban or rural for DSH purposes. The next category groups together hospitals considered urban or rural, in terms of whether they receive the IME adjustment, the DSH adjustment, both, or neither.

The next three rows examine the impacts of the proposed changes on rural hospitals by special payment groups (SCHs, MDHs and RRCs). There were 555 RRCs, 304 SCHs, 148 MDHs, 151 hospitals that are both SCHs and RRCs, and 24 hospitals that are both MDHs and RRCs.

The next series of groupings are based on the type of ownership and the hospital’s Medicare utilization expressed as a percent of total inpatient days. These data were taken from the FY 2018 or FY 2017 Medicare cost reports.

The next subgrouping concerns the geographic reclassification status of hospitals. The first subgrouping is based on whether a hospital is reclassified or not. The second and third subgroupings are based on whether urban and rural hospitals were reclassified by the MGCRB for FY 2022 or not, respectively. The fourth subgrouping displays hospitals that reclassified from urban to rural in accordance with section 1886(d)(8)(E) of the Act. The fifth subgrouping displays hospitals deemed urban in accordance with section 1886(d)(8)(B) of the Act.

BILLING CODE 4120–01–P
TABLE I.—IMPACT ANALYSIS OF PROPOSED CHANGES TO THE IPPS FOR OPERATING COSTS FOR FY 2022

<table>
<thead>
<tr>
<th>Number of Hospitals</th>
<th>Proposed Hospital Rate Update and Adjustment under MACRA (1)</th>
<th>Proposed FY 2022 Weights and DRG Changes with Application of Recalibration Budget Neutrality (2)</th>
<th>Proposed FY 2022 Wage Data with Application of Wage Budget Neutrality (3)</th>
<th>FY 2022 MGCRB Reclassifications (4)</th>
<th>Proposed Rural Floor with Application of National Rural Floor Budget Neutrality (5)</th>
<th>Application of the Proposed Frontier State Wage Index and Proposed Outmigration Adjustment (6)</th>
<th>All Proposed FY 2022 Changes (7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Hospitals</td>
<td>3,198</td>
<td>2.8</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>By Geographic Location:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban hospitals</td>
<td>2,459</td>
<td>2.8</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Rural hospitals</td>
<td>739</td>
<td>2.5</td>
<td>0.1</td>
<td>0.2</td>
<td>1.1</td>
<td>-0.2</td>
<td>-0.1</td>
</tr>
<tr>
<td>Bed Size (Urban):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-99 beds</td>
<td>633</td>
<td>2.7</td>
<td>0.0</td>
<td>0.0</td>
<td>-0.6</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>100-199 beds</td>
<td>755</td>
<td>2.8</td>
<td>0.0</td>
<td>0.0</td>
<td>-0.2</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>200-299 beds</td>
<td>427</td>
<td>2.8</td>
<td>0.0</td>
<td>0.1</td>
<td>0.2</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>300-499 beds</td>
<td>421</td>
<td>2.8</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.2</td>
</tr>
<tr>
<td>500 or more beds</td>
<td>223</td>
<td>2.7</td>
<td>0.0</td>
<td>-0.1</td>
<td>-0.2</td>
<td>-0.1</td>
<td>0.0</td>
</tr>
<tr>
<td>Bed Size (Rural):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-99 beds</td>
<td>313</td>
<td>2.4</td>
<td>0.1</td>
<td>0.3</td>
<td>0.3</td>
<td>-0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>100-199 beds</td>
<td>254</td>
<td>2.5</td>
<td>0.1</td>
<td>0.2</td>
<td>0.8</td>
<td>-0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>200-299 beds</td>
<td>94</td>
<td>2.5</td>
<td>0.1</td>
<td>0.5</td>
<td>1.0</td>
<td>-0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>300-499 beds</td>
<td>39</td>
<td>2.6</td>
<td>0.0</td>
<td>0.1</td>
<td>1.3</td>
<td>-0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>200 or more beds</td>
<td>39</td>
<td>2.6</td>
<td>0.1</td>
<td>0.1</td>
<td>2.0</td>
<td>-0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Urban by Region:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>112</td>
<td>2.8</td>
<td>0.0</td>
<td>-1.0</td>
<td>1.8</td>
<td>2.7</td>
<td>0.0</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>304</td>
<td>2.8</td>
<td>0.0</td>
<td>-0.3</td>
<td>0.1</td>
<td>-0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>East North Central</td>
<td>381</td>
<td>2.8</td>
<td>0.0</td>
<td>-0.1</td>
<td>-0.2</td>
<td>-0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>West North Central</td>
<td>160</td>
<td>2.7</td>
<td>-0.1</td>
<td>0.3</td>
<td>-0.7</td>
<td>-0.3</td>
<td>0.7</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>402</td>
<td>2.8</td>
<td>0.0</td>
<td>0.3</td>
<td>-0.5</td>
<td>-0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>East South Central</td>
<td>144</td>
<td>2.8</td>
<td>0.0</td>
<td>-0.1</td>
<td>-0.3</td>
<td>-0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>West South Central</td>
<td>364</td>
<td>2.8</td>
<td>0.0</td>
<td>-0.4</td>
<td>-0.5</td>
<td>-0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>Mountain</td>
<td>172</td>
<td>2.7</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Pacific</td>
<td>370</td>
<td>2.7</td>
<td>-0.1</td>
<td>0.5</td>
<td>0.2</td>
<td>0.4</td>
<td>0.1</td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>50</td>
<td>2.8</td>
<td>-0.4</td>
<td>-0.2</td>
<td>-1.0</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>Rural by Region:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>19</td>
<td>2.6</td>
<td>0.0</td>
<td>-0.4</td>
<td>1.4</td>
<td>-0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>50</td>
<td>2.5</td>
<td>0.2</td>
<td>0.5</td>
<td>0.7</td>
<td>-0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>East North Central</td>
<td>114</td>
<td>2.5</td>
<td>0.1</td>
<td>0.2</td>
<td>0.8</td>
<td>-0.1</td>
<td>0.0</td>
</tr>
<tr>
<td>West North Central</td>
<td>89</td>
<td>2.3</td>
<td>0.0</td>
<td>0.0</td>
<td>0.3</td>
<td>-0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>114</td>
<td>2.5</td>
<td>0.1</td>
<td>1.0</td>
<td>1.3</td>
<td>-0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>East South Central</td>
<td>144</td>
<td>2.7</td>
<td>0.1</td>
<td>-0.1</td>
<td>2.1</td>
<td>-0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>West South Central</td>
<td>136</td>
<td>2.5</td>
<td>0.1</td>
<td>0.0</td>
<td>1.5</td>
<td>-0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>Mountain</td>
<td>49</td>
<td>2.2</td>
<td>0.0</td>
<td>0.6</td>
<td>0.0</td>
<td>0.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Pacific</td>
<td>24</td>
<td>2.4</td>
<td>0.0</td>
<td>0.0</td>
<td>1.1</td>
<td>-0.1</td>
<td>0.0</td>
</tr>
<tr>
<td>By Payment Classification:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban hospitals</td>
<td>1,965</td>
<td>2.8</td>
<td>0.0</td>
<td>0.0</td>
<td>-0.5</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Rural areas</td>
<td>1,233</td>
<td>2.7</td>
<td>0.0</td>
<td>-0.1</td>
<td>0.8</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Teaching Status:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonteaching</td>
<td>2,034</td>
<td>2.7</td>
<td>0.0</td>
<td>0.2</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Number of Hospitals(^1)</td>
<td>Proposed Hospital Rate Update and Adjustment under MACRA ((1)) (^2)</td>
<td>Proposed FY 2022 Weights and DRG Changes with Application of Recalibration Budget Neutrality ((2)) (^3)</td>
<td>Proposed FY 2022 Wage Data with Application of Wage Budget Neutrality ((3)) (^4)</td>
<td>FY 2022 MGCGB Reclassifications ((4)) (^5)</td>
<td>Proposed Rural Floor with Application of National Rural Floor Budget Neutrality ((5)) (^6)</td>
<td>Application of the Proposed Frontier State Wage Index and Proposed Outmigration Adjustment ((6)) (^7)</td>
<td>All Proposed FY 2022 Changes ((7)) (^8)</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------</td>
<td>---------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Fewer than 100 residents</td>
<td>907 2.8 0.0 0.0 0.0 0.0 0.2 2.6</td>
<td>100 or more residents</td>
<td>257 2.7 0.0 -0.1 0.0 0.1 0.2 2.7</td>
<td>Urban DSH:</td>
<td>Non-DSH</td>
<td>505 2.8 0.0 0.0 -0.5 0.0 0.2 2.6</td>
<td>100 or more beds</td>
</tr>
<tr>
<td>Rural DSH:</td>
<td>S/H</td>
<td>260 2.3 0.1 0.1 -0.2 0.0 0.1 2.7</td>
<td>RRC</td>
<td>622 2.7 0.0 -0.1 0.9 -0.1 0.1 2.7</td>
<td>100 or more beds</td>
<td>34 2.7 0.0 0.0 -0.5 1.5 0.0 2.5</td>
<td>Less than 100 beds</td>
</tr>
<tr>
<td>Urban teaching and DSH:</td>
<td>Both teaching and DSH</td>
<td>674 2.8 0.0 0.0 -0.6 -0.1 0.1 2.6</td>
<td>Teaching and no DSH</td>
<td>74 2.8 0.0 -0.1 -0.9 -0.2 0.1 2.9</td>
<td>No teaching and DSH</td>
<td>886 2.8 0.0 0.2 -0.4 0.2 0.1 2.8</td>
<td>No teaching and no DSH</td>
</tr>
<tr>
<td>Special Hospital Types:</td>
<td>RRC</td>
<td>555 2.8 0.0 -0.1 0.9 -0.1 0.1 2.8</td>
<td>SCH</td>
<td>304 2.3 0.0 0.1 -0.1 0.0 0.0 2.7</td>
<td>MDH</td>
<td>148 2.5 0.1 0.0 0.4 -0.1 0.1 2.8</td>
<td>SCH and RRC</td>
</tr>
<tr>
<td>Type of Ownership:</td>
<td>MDH and RRC</td>
<td>24 2.4 0.0 0.0 0.4 -0.1 0.0 2.3</td>
<td>Voluntary</td>
<td>1,883 2.8 0.0 -0.1 0.1 0.0 0.1 2.6</td>
<td>Proprietor</td>
<td>828 2.8 0.0 0.1 0.0 0.0 0.1 2.8</td>
<td></td>
</tr>
<tr>
<td>Medicare Utilization as a Percent of Inpatient Days:</td>
<td>Government</td>
<td>487 2.7 0.0 0.2 -0.3 0.0 0.0 2.9</td>
<td>0-25</td>
<td>643 2.8 0.0 0.0 -0.5 -0.1 0.0 2.8</td>
<td>25-50</td>
<td>2,113 2.8 0.0 0.0 0.1 0.0 0.1 2.7</td>
<td>50-65</td>
</tr>
<tr>
<td>FY 2022 Reclassifications:</td>
<td>Over 65</td>
<td>51 2.6 0.1 0.1 -0.9 -0.2 0.1 3.3</td>
<td>All Reclassified Hospitals</td>
<td>1,048 2.7 0.0 -0.1 1.0 0.0 0.1 2.7</td>
<td>Non-Reclassified Hospitals</td>
<td>2,150 2.8 0.0 0.1 -0.9 0.0 0.1 2.7</td>
<td>Urban Hospitals Reclassified</td>
</tr>
<tr>
<td>Urban Non-Reclassified Hospitals</td>
<td>1,612 2.8 0.0 0.1 -1.0 0.0 0.1 2.7</td>
<td>Rural Hospitals Reclassified Full Year</td>
<td>304 2.5 0.1 0.2 1.9 -0.2 0.0 2.7</td>
<td>Rural Non-Reclassified Hospitals Full Year</td>
<td>422 2.5 0.1 0.2 -0.3 -0.1 0.2 3.3</td>
<td>All Section 401 Reclassified Hospitals</td>
<td>550 2.7 0.0 -0.1 0.7 0.0 0.1 2.8</td>
</tr>
<tr>
<td>Other Reclassified Hospitals (Section 1886(d)(8)(B))</td>
<td>56 2.6 0.1 0.0 2.6 -0.2 0.0 3.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effects of the Proposed Hospital Update and Other Proposed Adjustments (Column 1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>----</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As discussed in section IV.A. of the preamble of this proposed rule, this column includes the proposed hospital update, including the proposed 2.5 percent market basket update reduced by 0.2 percentage point for the proposed multifactor productivity adjustment, and the proposed 0.5 percentage point adjustment to the national standardized amount required under section 414 of the MACRA.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In addition, as discussed in section II.D. of the preamble of this proposed rule, this column includes the FY 2022 +0.5 percentage point adjustment required under section 414 of the MACRA.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Among the proposed changes to the payment impact of the proposed changes to the Version 39 GROUPER, the proposed changes to the relative weights and the recalibration of the MS-DRG weights based on FY 2019 MedPAR data as the best available data in accordance with section 1886(d)(4)(C)(iii) of the Act. This column displays the application of the proposed recalibration budget neutrality factor of 1.000098 in accordance with section 1886(d)(4)(C)(iii) of the Act.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This column displays the payment impact of the proposed update to wage index data using FY 2018 cost report data and the OMB labor market area delineations based on 2010 Decennial Census data. This column displays the payment impact of the application of the proposed wage budget neutrality factor, which is calculated separately from the recalibration budget neutrality factor, and is calculated in accordance with section 1886(d)(3)(E)(i) of the Act. The proposed wage budget neutrality factor is 1.000277.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This column displays the effects of the proposed rural floor The Affordable Care Act requires the rural floor budget neutrality adjustment to be a 100 percent national level adjustment. The proposed rural floor budget neutrality factor applied to the wage index is 0.993988.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This column shows the combined impact of the policy required under section 10324 of the Affordable Care Act that hospitals located in frontier States have a wage index no less than 1.0 and of section 1886(d)(13) of the Act, as added by section 505 of Pub. L. 108-173, which provides for an increase in a hospital’s wage index if a threshold percentage of residents of the county where the hospital is located commute to work at hospitals in counties with higher wage indexes. These are not budget neutral policies.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This column shows the estimated change in payments from FY 2021 to FY 2022.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Because data necessary to classify some hospitals by category were missing, the total number of hospitals in each category may not equal the national total. Discharge data are from FY 2019, and hospital cost report data are from reporting periods beginning in FY 2018 and FY 2017.

2 This column displays the payment impact of the proposed hospital rate update and other adjustments, including the proposed 2.3 percent update to the national standardized amount and the proposed hospital-specific rate (the estimated 2.5 percent market basket update reduced by 0.2 percentage point for the proposed multifactor productivity adjustment), and the proposed 0.5 percentage point adjustment to the national standardized amount required under section 414 of the MACRA.

3 This column displays the payment impact of the proposed changes to the Version 39 GROUPER, the proposed changes to the relative weights and the recalibration of the MS-DRG weights based on FY 2019 MedPAR data as the best available data in accordance with section 1886(d)(4)(C)(iii) of the Act. This column displays the application of the proposed recalibration budget neutrality factor of 1.000098 in accordance with section 1886(d)(4)(C)(iii) of the Act.

4 This column displays the payment impact of the proposed update to wage index data using FY 2018 cost report data and the OMB labor market area delineations based on 2010 Decennial Census data. This column displays the payment impact of the application of the proposed wage budget neutrality factor, which is calculated separately from the recalibration budget neutrality factor, and is calculated in accordance with section 1886(d)(3)(E)(i) of the Act. The proposed wage budget neutrality factor is 1.000277.

5 Shown here are the effects of geographic reclassifications by the Medicare Geographic Classification Review Board (MGCRB). The effects demonstrate the FY 2022 payment impact of going from no reclassifications to the reclassifications scheduled to be in effect for FY 2022. Reclassification for prior years has no bearing on the payment impacts shown here. This column reflects the proposed geographic budget neutrality factor of 0.997018.

6 This column displays the effects of the proposed rural floor The Affordable Care Act requires the rural floor budget neutrality adjustment to be a 100 percent national level adjustment. The proposed rural floor budget neutrality factor applied to the wage index is 0.993988.

7 This column shows the combined impact of the policy required under section 10324 of the Affordable Care Act that hospitals located in frontier States have a wage index no less than 1.0 and of section 1886(d)(13) of the Act, as added by section 505 of Pub. L. 108-173, which provides for an increase in a hospital’s wage index if a threshold percentage of residents of the county where the hospital is located commute to work at hospitals in counties with higher wage indexes. These are not budget neutral policies.

8 This column shows the estimated change in payments from FY 2021 to FY 2022.
percent update to the national standardized amount. This column also includes the proposed update to the hospital-specific rates which includes the proposed 2.5 percent market basket update reduced by the proposed 0.2 percentage point for the multifactor productivity adjustment. As a result, we are proposing to make a 2.3 percent update to the hospital-specific rates.

Overall, hospitals would experience a 2.8 percent increase in payments primarily due to the combined effects of the proposed hospital update to the national standardized amount and the proposed hospital update to the hospital-specific rate. Hospitals that are paid under the hospital-specific rate would experience a 2.3 percent increase in payments; therefore, hospital categories containing hospitals paid under the hospital-specific rate would experience a lower than average increase in payments.

b. Effects of the Proposed Changes to the MS–DRG Reclassifications and Relative Cost-Based Weights With Recalibration Budget Neutrality (Column 2)

Column 2 shows the effects of the proposed changes to the MS–DRGs and relative weights with the application of the proposed recalibration budget neutrality factor to the standardized amounts. Section 1886(d)(1)(C)(i) of the Act requires us annually to make appropriate classification changes in order to reflect changes in treatment patterns, technology, and any other factors that may change the relative use of hospital resources. Consistent with section 1886(d)(1)(C)(ii) of the Act, we calculated a proposed recalibration budget neutrality factor to account for the changes in MS–DRGs and relative weights to ensure that the overall payment impact is budget neutral.

As discussed in section II.E. of the preamble of this proposed rule, the FY 2022 MS–DRG relative weights will be 100 percent cost-based and 100 percent MS–DRGs. For FY 2022, we are proposing to calculate the MS–DRGs using the FY 2019 MedPAR data grouped to the proposed Version 39 (FY 2022) MS–DRGs. The methodology to calculate the proposed relative weights and the reclassification changes to the GROPER are described in more detail in section II.C. of the preamble of this proposed rule.

The “All Hospitals” line in Column 2 indicates that proposed changes due to the MS–DRGs and relative weights would result in a 0.0 percent change in payments with the application of the proposed recalibration budget neutrality factor of 1.000098 to the standardized amount.

c. Effects of the Proposed Wage Index Changes (Column 3)

Column 3 shows the impact of the proposed updated wage data using FY 2018 cost report data, with the application of the proposed wage budget neutrality factor. The wage index is calculated and assigned to hospitals on the basis of the labor market area in which the hospital is located. Under section 1886(d)(3)(E) of the Act, beginning with FY 2005, we delineate hospital labor market areas based on the Core Based Statistical Areas (CBSAs) established by OMB. The current statistical standards used in FY 2022 are based on OMB standards published on February 28, 2013 (75 FR 37246 and 37252), and 2010 Decennial Census data (OMB Bulletin No. 13–01), as updated in OMB Bulletin Nos. 15–01, 17–01, and 18–04. (We refer readers to the FY 2015 IPPS/LTC PPS final rule (81 FR 56913) for a discussion of our adoption of the OMB labor market area delineations, based on the 2010 Decennial Census data, effective beginning with the FY 2015 IPPS wage index, to the FY 2017 IPPS/LTC PPS final rule (83 FR 41362) for a discussion of our adoption of the CBSA update in OMB Bulletin No. 17–01 for the FY 2020 wage index, and to the FY 2021 IPPS/LTC PPS final rule (85 FR 58743 through 58755) for a discussion of our adoption of the CBSA update in OMB Bulletin No. 18–04 for the FY 2021 wage index.)

Section 1886(d)(3)(E) of the Act requires that, beginning October 1, 1993, we annually update the wage data used to calculate the wage index. In accordance with this requirement, the proposed wage index for acute care hospitals for FY 2022 is based on data submitted for hospital cost reporting periods, beginning on or after October 1, 2017 and before October 1, 2018. The estimated impact of the updated wage data using the FY 2018 cost report data and the OMB labor market area delineations on hospital payments is isolated in Column 3 by holding the other proposed payment parameters constant in this simulation. That is, Column 3 shows the proposed percentage change in payments when going from a model using the FY 2021 wage index, based on FY 2017 wage data, the labor-related share of 68.3 percent, under the OMB delineations and having a 100-percent occupational mix adjustment applied, to a model using the proposed FY 2022 pre-reclassification wage index based on FY 2018 wage data with the proposed labor-related share of 67.6 percent, under the OMB delineations, also having a 100-percent occupational mix adjustment applied, while holding other payment parameters, such as use of the proposed Version 39 MS–DRG GROPER constant.

The FY 2022 occupational mix adjustment is based on the CY 2019 occupational mix survey.

In addition, the column shows the impact of the application of the proposed wage budget neutrality to the national standardized amount. In FY 2010, we began calculating separate wage budget neutrality and recalibration budget neutrality factors, in accordance with section 1886(d)(3)(E) of the Act, which specifies that budget neutrality to account for wage index changes or updates made under that subparagraph must be made without regard to the 62 percent labor-related share guaranteed under section 1886(d)(3)(E)(i) of the Act. Therefore, for FY 2022, we are proposing to calculate the proposed wage budget neutrality factor to ensure that payments under updated wage data and the proposed labor-related share of 67.6 percent are budget neutral, without regard to the lower labor-related share of 62 percent applied to hospitals with a wage index less than or equal to 1.0. In other words, the wage budget neutrality is calculated under the assumption that all hospitals receive the higher labor-related share of the standardized amount. The proposed FY 2022 wage budget neutrality factor is 1.000277 and the overall proposed payment change is 0 percent.

Column 3 shows the impacts of updating the wage data using FY 2018 cost reports. Overall, the new wage data and the proposed labor-related share, combined with the proposed wage budget neutrality adjustment, would lead to no change for all hospitals, as shown in Column 3. In looking at the wage data itself, the national average hourly wage would increase 2.5 percent compared to FY 2021. Therefore, the only manner in which to maintain or exceed the previous year’s wage index was to match or exceed the proposed 2.5 percent increase in the national average hourly wage. Of the 3,140 hospitals with wage data for both FYs 2021 and 2022, 1,628 or 52 percent would experience an average hourly wage increase of 2.5 percent or more.

The following chart compares the shifts in wage index values for hospitals due to proposed changes in the average hourly wage data for FY 2022 relative to FY 2021. These figures reflect proposed changes in the “pre-reclassification, occupational mix-adjusted wage index,” that is, the wage index before the application of geographic reclassification, the rural floor, the out-migration adjustment, and other wage index exceptions and adjustments. We note that the “post-reclassified wage index” or “payment wage index,” which is the wage index that includes all such exceptions and adjustments (as reflected in Tables 2 and 3 associated with this proposed rule, which are available via the internet on the CMS website) is used to adjust the labor-related share of a hospital’s standardized amount, either 67.6 percent (as proposed) or 62 percent, depending upon whether a hospital’s wage index is greater than 1.0 or less than or equal to 1.0. Therefore, the proposed pre-reclassified wage index figures in the following chart may illustrate a somewhat larger or smaller proposed change than would occur in a hospital’s payment wage index and total payment.

The following chart shows the projected impact of proposed changes in the area wage index values for urban and rural hospitals.
d. Effects of MGCRB Reclassifications (Column 4)

Our impact analysis to this point has assumed acute care hospitals are paid on the basis of their actual geographic location (with the exception of ongoing policies that provide that certain hospitals receive payments on bases other than where they are geographically located). The proposed changes in Column 4 reflect the per case payment impact of moving from this baseline to a simulation incorporating the MGCRB decisions for FY 2022.

By spring of each year, the MGCRB makes reclassification determinations that will be effective for the next fiscal year, which begins on October 1. The MGCRB may approve a hospital’s reclassification request for the purpose of using another area’s wage index value. Hospitals may appeal denials by the MGCRB of reclassification requests to the CMS Administrator. Further, hospitals have 45 days from the date the IPPS proposed rule is issued in the Federal Register to decide whether to withdraw or terminate an approved geographic reclassification for the following year (we refer readers to the discussion of our clarification of this policy in section III.1.2. of the preamble to this proposed rule.)

The overall effect of geographic reclassification is required by section 1886(d)(6)(D) of the Act to be budget neutral. Therefore, during each of this impact analysis, we are proposing to apply an adjustment of 0.987018 to ensure that the effects of the reclassifications under sections 1886(d)(B) and (C) and 1886(d)(10) of the Act are budget neutral (section II.A. of the Addendum to this proposed rule). As noted elsewhere in this proposed rule, concurrent with this proposed rule, CMS has made publicly available the interim final rule with comment period titled “Medicare Program; Modification of Limitations on Redesignation by the Medicare Geographic Classification Review Board (MGCRB)” (CMS-1762-IFC). Also as noted elsewhere in this proposed rule, if certain hospitals receive higher wage indexes as a result of settlement or other resolution of pending litigation, we intend to include any amounts they receive by reason of those higher wage indexes in the calculation of the budget neutrality factor. If these hospitals do receive a higher wage index at the time of the final rule than they might otherwise have received, we estimate the FY 2022 budget neutrality adjustment could increase by as much as approximately one-half of a percentage point compared to the budget neutrality adjustment that might otherwise have been calculated.

Geographic reclassification generally benefits hospitals in rural areas. We estimate that the geographic reclassification would increase payments to rural hospitals by an average of 1.1 percent. By region, most rural hospital categories would experience increases in payments due to MGCRB reclassifications.

Table 2 listed in section VI. of the Addendum to this proposed rule and available via the internet on the CMS website reflects the reclassifications for FY 2022.

e. Effects of the Proposed Rural Floor, Including Application of National Budget Neutrality (Column 5)

As discussed in section III.B. of the preamble of the FY 2009 IPPS final rule, the FY 2010 IPPS/RY 2010 LTCH PPS final rule, the FYs 2011 through 2021 IPPS/LTCH PPS final rules, and this FY 2022 IPPS/LTCH PPS proposed rule, section 4410 of Public Law 105–33 established the rural floor by requiring that the wage index for a hospital in any urban area cannot be less than the wage index applicable to hospitals located in rural areas and apply a uniform budget neutrality adjustment to the wage index. Column 5 shows the effects of the proposed rural floor.

The Affordable Care Act requires that we apply one rural floor budget neutrality factor to the wage index nationally. We have calculated a proposed FY 2022 rural floor budget neutrality factor to be applied to the wage index of 0.993988, which would reduce wage indexes by 0.6 percent.

Column 5 shows the projected impact of the proposed rural floor with the national rural floor budget neutrality factor applied to the wage index based on the OMB labor market area delineations. The column compares the proposed post-reclassification FY 2022 wage index of providers before the rural floor adjustment and the proposed post-reclassification FY 2022 wage index of providers with the rural floor adjustment based on the OMB labor market area delineations. Only urban hospitals can benefit from the rural floor. Because the provision is budget neutral, all other hospitals that do not receive an increase to their wage index from the rural floor adjustment (that is, all rural hospitals and those urban hospitals to which the adjustment is not made) would experience a decrease in payments due to the budget neutrality adjustment that is applied to the wage index nationally. (As finalized in the FY 2020 IPPS/LTCH PPS final rule, we calculate the rural floor without including the wage data of hospitals that have reclassified as rural under § 412.103.)

We estimate that 287 hospitals would receive the rural floor in FY 2022. All IPPS hospitals in our model would have their wage indexes reduced by the proposed rural floor budget neutrality adjustment of 0.993988. We project that, in aggregate, rural hospitals would experience a 2.7 percent increase in payments primarily due to the application of the rural floor in Massachusetts.

f. Effects of the Application of the Proposed Frontier State Wage Index and Proposed Out-Migration Adjustment (Column 6)

This column shows the combined effects of the application of section 10324(a) of the Affordable Care Act, which requires that we establish a minimum post-reclassified wage index of 1.00 for all hospitals located in “frontier States,” and the effects of section 1886(d)(13) of the Act, as added by section 505 of Public Law 108–173, which provides for an increase in the wage index for hospitals located in counties that have a relatively high percentage of hospital employees who reside in the county, but work in a different area with a higher wage index. These two wage index provisions are not budget neutral and would increase payments overall by 0.1 percent compared to the provisions not being in effect.

The term “frontier States” is defined in the statute as States in which at least 50 percent of counties have a population density less than 6 persons per square mile. Based on these criteria, 5 States (Montana, Nevada, North Dakota, South Dakota, and Wyoming) are considered frontier States and an estimated 44 hospitals located in those States would receive a frontier wage index of 1.0000. Overall, this provision is not budget neutral.

<table>
<thead>
<tr>
<th>Proposed FY 2022 Percentage Change in Area Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase 10 percent or more</td>
<td>10</td>
</tr>
<tr>
<td>Increase greater than or equal to 5 percent and less than 10 percent</td>
<td>32</td>
</tr>
<tr>
<td>Increase or decrease less than 5 percent</td>
<td>2,315</td>
</tr>
<tr>
<td>Decrease greater than or equal to 5 percent and less than 10 percent</td>
<td>50</td>
</tr>
<tr>
<td>Decrease 10 percent or more</td>
<td>4</td>
</tr>
<tr>
<td>Unchanged</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>32</td>
</tr>
<tr>
<td>Decrease</td>
<td>50</td>
</tr>
<tr>
<td>Unchanged</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>10</td>
</tr>
<tr>
<td>Decrease</td>
<td>2</td>
</tr>
<tr>
<td>Unchanged</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>2,315</td>
</tr>
<tr>
<td>Decrease</td>
<td>667</td>
</tr>
<tr>
<td>Unchanged</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>50</td>
</tr>
<tr>
<td>Decrease</td>
<td>2</td>
</tr>
<tr>
<td>Unchanged</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>4</td>
</tr>
<tr>
<td>Decrease</td>
<td>0</td>
</tr>
<tr>
<td>Unchanged</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wage Index Values</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>11</td>
</tr>
<tr>
<td>Decrease</td>
<td>0</td>
</tr>
<tr>
<td>Unchanged</td>
<td>0</td>
</tr>
</tbody>
</table>
neutral and is estimated to increase IPPS operating payments by approximately $68 million.

In addition, section 1886(d)(13) of the Act, as added by section 505 of Public Law 108–173, provides for an increase in the wage index for hospitals located in certain counties that have a relatively high percentage of hospital employees who reside in the county, but work in a different area with a higher wage index. Hospitals located in counties that qualify for the payment adjustment would receive an increase in the wage index that is equal to a weighted average of the difference between the wage index of the resident county, post-reclassification and the higher wage index work area(s), weighted by the overall percentage of workers who are employed in an area with a higher wage index. There are an estimated 184 providers that would receive the out-migration wage adjustment in FY 2022. This out-migration wage adjustment is not budget neutral, and we estimate the impact of these providers receiving the out-migration increase would be approximately $40 million.

g. Effects of All FY 2022 Proposed Changes (Column 7)

Column 7 shows our estimate of the proposed changes in payments per discharge from FY 2021 and FY 2022, resulting from all changes reflected in this proposed rule for FY 2022. It includes combined effects of the year-to-year change of the previous columns in the table.

The proposed average increase in payments under the IPPS for all hospitals is approximately 2.7 percent for FY 2022 relative to FY 2021 and for this row is primarily driven by the proposed changes reflected in Column 1. Column 7 includes the proposed annual hospital update of 2.8 percent to the national standardized amount. This proposed annual hospital update includes the proposed 2.5 percent market basket update reduced by the proposed 0.2 percentage point multifactor productivity adjustment. As discussed in section II.D. of the preamble of this proposed rule, this column also includes the +0.5 percentage point adjustment required under section 414 of the MACRA. Hospitals paid under the hospital-specific rate would receive a 2.3 percent hospital update. As described in Column 1, the proposed annual hospital update with the proposed +0.5 percent adjustment for hospitals paid under the national standardized amount, combined with the proposed annual hospital update for hospitals paid under the hospital-specific rates, would result in a 2.7 percent increase in payments in FY 2022 relative to FY 2021. There are interactive effects among the various factors comprising the payment system that we are not able to isolate, which contribute to our estimate of the proposed changes in payments per discharge from FY 2021 and FY 2022 in Column 7.

Overall payments to hospitals paid under the IPPS due to the proposed applicable percentage increase and proposed changes to policies related to MS–DRGs, geographic adjustments, and outliers are estimated to increase by 2.7 percent for FY 2022. Hospitals in urban areas would experience a 2.7 percent increase in payments per discharge in FY 2022 compared to FY 2021. Hospital payments per discharge in rural areas are estimated to increase by 2.9 percent in FY 2022.

3. Impact Analysis of Table II

Table II presents the projected impact of the proposed changes for FY 2022 for urban and rural hospitals and for the different categories of hospitals shown in Table I. It compares the estimated average payments per discharge for FY 2021 with the estimated proposed average payments per discharge for FY 2022, as calculated under our models. Therefore, this table presents, in terms of the average dollar amounts paid per discharge, the combined effects of the proposed changes presented in Table I. The estimated percentage changes shown in the last column of Table II equal the estimated percentage changes in average payments per discharge from Column 7 of Table I.
<table>
<thead>
<tr>
<th>TABLE II.--IMPACT ANALYSIS OF PROPOSED CHANGES FOR FY 2022 ACUTE CARE HOSPITAL OPERATING PROSPECTIVE PAYMENT SYSTEM (PAYMENTS PER DISCHARGE)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Hospitals (1)</strong></td>
</tr>
<tr>
<td>All Hospitals</td>
</tr>
<tr>
<td><strong>By Geographic Location:</strong></td>
</tr>
<tr>
<td>Urban hospitals</td>
</tr>
<tr>
<td>Rural hospitals</td>
</tr>
<tr>
<td><strong>Bed Size (Urban):</strong></td>
</tr>
<tr>
<td>0-99 beds</td>
</tr>
<tr>
<td>100-199 beds</td>
</tr>
<tr>
<td>200-299 beds</td>
</tr>
<tr>
<td>300-499 beds</td>
</tr>
<tr>
<td>500 or more beds</td>
</tr>
<tr>
<td><strong>Bed Size (Rural):</strong></td>
</tr>
<tr>
<td>0-49 beds</td>
</tr>
<tr>
<td>50-99 beds</td>
</tr>
<tr>
<td>100-149 beds</td>
</tr>
<tr>
<td>150-199 beds</td>
</tr>
<tr>
<td>200 or more beds</td>
</tr>
<tr>
<td><strong>Urban by Region:</strong></td>
</tr>
<tr>
<td>New England</td>
</tr>
<tr>
<td>Middle Atlantic</td>
</tr>
<tr>
<td>East North Central</td>
</tr>
<tr>
<td>West North Central</td>
</tr>
<tr>
<td>South Atlantic</td>
</tr>
<tr>
<td>East South Central</td>
</tr>
<tr>
<td>West South Central</td>
</tr>
<tr>
<td>Mountain</td>
</tr>
<tr>
<td>Pacific</td>
</tr>
<tr>
<td>Puerto Rico</td>
</tr>
<tr>
<td><strong>Rural by Region:</strong></td>
</tr>
<tr>
<td>New England</td>
</tr>
<tr>
<td>Middle Atlantic</td>
</tr>
<tr>
<td>East North Central</td>
</tr>
<tr>
<td>Region</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>West North Central</td>
</tr>
<tr>
<td>South Atlantic</td>
</tr>
<tr>
<td>East South Central</td>
</tr>
<tr>
<td>West South Central</td>
</tr>
<tr>
<td>Mountain</td>
</tr>
<tr>
<td>Pacific</td>
</tr>
</tbody>
</table>

By Payment Classification:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban hospitals</td>
<td>1,965</td>
<td>12,790</td>
<td>13,128</td>
<td>2.6</td>
</tr>
<tr>
<td>Rural areas</td>
<td>1,233</td>
<td>13,582</td>
<td>13,959</td>
<td>2.8</td>
</tr>
</tbody>
</table>

Teaching Status:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonteaching</td>
<td>2,034</td>
<td>10,673</td>
<td>10,976</td>
<td>2.8</td>
</tr>
<tr>
<td>Fewer than 100 residents</td>
<td>907</td>
<td>12,386</td>
<td>12,705</td>
<td>2.6</td>
</tr>
<tr>
<td>100 or more residents</td>
<td>257</td>
<td>19,938</td>
<td>19,450</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Urban DSH:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-DSH</td>
<td>505</td>
<td>11,736</td>
<td>12,042</td>
<td>2.6</td>
</tr>
<tr>
<td>100 or more beds</td>
<td>1,210</td>
<td>13,171</td>
<td>13,521</td>
<td>2.7</td>
</tr>
<tr>
<td>Less than 100 beds</td>
<td>350</td>
<td>9,535</td>
<td>9,812</td>
<td>2.9</td>
</tr>
</tbody>
</table>

Rural DSH:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCH</td>
<td>260</td>
<td>11,100</td>
<td>11,405</td>
<td>2.7</td>
</tr>
<tr>
<td>RRC</td>
<td>622</td>
<td>14,094</td>
<td>14,481</td>
<td>2.7</td>
</tr>
<tr>
<td>100 or more beds</td>
<td>34</td>
<td>14,327</td>
<td>14,691</td>
<td>2.5</td>
</tr>
<tr>
<td>Less than 100 beds</td>
<td>217</td>
<td>7,785</td>
<td>8,040</td>
<td>3.3</td>
</tr>
</tbody>
</table>

Urban teaching and DSH:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both teaching and DSH</td>
<td>674</td>
<td>14,280</td>
<td>14,651</td>
<td>2.6</td>
</tr>
<tr>
<td>Teaching and no DSH</td>
<td>74</td>
<td>12,572</td>
<td>12,821</td>
<td>2.4</td>
</tr>
<tr>
<td>No teaching and DSH</td>
<td>886</td>
<td>10,914</td>
<td>11,223</td>
<td>2.8</td>
</tr>
<tr>
<td>No teaching and no DSH</td>
<td>331</td>
<td>10,879</td>
<td>11,171</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Special Hospital Types:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRC</td>
<td>555</td>
<td>14,259</td>
<td>14,659</td>
<td>2.8</td>
</tr>
<tr>
<td>SCH</td>
<td>304</td>
<td>12,082</td>
<td>12,407</td>
<td>2.7</td>
</tr>
<tr>
<td>MDH</td>
<td>148</td>
<td>9,137</td>
<td>9,389</td>
<td>2.8</td>
</tr>
<tr>
<td>SCH and RRC</td>
<td>151</td>
<td>12,529</td>
<td>12,837</td>
<td>2.5</td>
</tr>
<tr>
<td>MDH and RRC</td>
<td>24</td>
<td>10,575</td>
<td>10,817</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Type of Ownership:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voluntary</td>
<td>1,883</td>
<td>13,317</td>
<td>13,668</td>
<td>2.6</td>
</tr>
<tr>
<td>Proprietary</td>
<td>828</td>
<td>11,472</td>
<td>11,796</td>
<td>2.8</td>
</tr>
<tr>
<td>Government</td>
<td>487</td>
<td>14,106</td>
<td>14,516</td>
<td>2.9</td>
</tr>
</tbody>
</table>

Medicare Utilization as a Percent of Inpatient Days:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25</td>
<td>643</td>
<td>15,157</td>
<td>15,587</td>
<td>2.8</td>
</tr>
<tr>
<td>25-50</td>
<td>2,113</td>
<td>12,924</td>
<td>13,275</td>
<td>2.7</td>
</tr>
<tr>
<td>50-65</td>
<td>366</td>
<td>10,759</td>
<td>10,977</td>
<td>2.2</td>
</tr>
<tr>
<td>Over 65</td>
<td>51</td>
<td>8,116</td>
<td>8,387</td>
<td>3.3</td>
</tr>
</tbody>
</table>

FY 2022 Reclassifications by the Medicare Geographic Classification Review Board:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Hospitals (1)</th>
<th>Estimated Average Payment Per Discharge (2)</th>
<th>Estimated Proposed Average Payment Per Discharge (3)</th>
<th>Proposed FY 2022 Changes (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Reclassified Hospitals</td>
<td>1,048</td>
<td>13,575</td>
<td>13,947</td>
<td>2.7</td>
</tr>
<tr>
<td>Non-Reclassified Hospitals</td>
<td>2,150</td>
<td>12,699</td>
<td>13,037</td>
<td>2.7</td>
</tr>
<tr>
<td>Urban Hospitals Reclassified</td>
<td>860</td>
<td>14,091</td>
<td>14,464</td>
<td>2.6</td>
</tr>
<tr>
<td>Urban Nonreclassified Hospitals</td>
<td>1,612</td>
<td>12,855</td>
<td>13,204</td>
<td>2.7</td>
</tr>
<tr>
<td>Rural Hospitals Reclassified Full Year</td>
<td>304</td>
<td>10,081</td>
<td>10,356</td>
<td>2.7</td>
</tr>
<tr>
<td>Rural Nonreclassified Hospitals Full Year</td>
<td>422</td>
<td>9,606</td>
<td>9,920</td>
<td>3.3</td>
</tr>
<tr>
<td>All Section 401 Reclassified Hospitals</td>
<td>550</td>
<td>14,656</td>
<td>15,059</td>
<td>2.8</td>
</tr>
<tr>
<td>Other Reclassified Hospitals (Section 1886(d)(8)(B))</td>
<td>56</td>
<td>9,149</td>
<td>9,432</td>
<td>3.1</td>
</tr>
</tbody>
</table>
H. Effects of Other Policy Changes

In addition to those proposed policy changes discussed previously that we are able to model using our IPPS payment simulation model, we are proposing to make various other changes in this proposed rule. As noted in section I.G. of this Appendix A, our payment simulation model uses the most recent available claims data to estimate the impacts on payments per case of certain proposed changes in this proposed rule. Generally, we have limited or no specific data available with which to estimate the impacts of these proposed changes using that payment simulation model. For those proposed changes, we have attempted to predict the payment impacts based upon our experience and other more limited data. Our estimates of the likely impacts associated with these other proposed changes are discussed in this section.

1. Effects of Proposed Policies Relating to New Medical Service and Technology Add-On Payments and New COVID–19 Treatments Add-on Payment (NCTAP)


In section II.F.4. of the preamble of this proposed rule, we are proposing to continue to make new technology add-on payments for BAROSTIM NEO System, BALVERSA®, Jakafi®, FETROJA®, Optimizer® System, RECARBRIO®, Soliris®, XENLETA®, and ZERBAXA® in FY 2022 because these technologies would still be considered new for purposes of new technology add-on payments. We are also proposing a 1-year extension for FY 2022 of the new technology add-on payments for the following technologies, for which new technology add-on payments would otherwise be discontinued beginning with FY 2022: AndexXa®, AZEDRA®, Cablivi®, ContaCT, Eluvia Drug-Eluting Vascular Stent System, ELZONRIS®, Esketamine (SPRAVATO®), Hemospray, IMFINZI®/TECENTRIQ, NUZYRA, Spinejack, T2 Bacteria Test Panel, XOSPATA®, and ZEMDRI®.

We refer readers to section II.F. of the preamble of this proposed rule with regard to our proposal for a 1-year extension of new technology add-on payments for these technologies in FY 2022.

Under § 412.88(a)(2), the new technology add-on payment for each case would be limited to the lesser of: (1) 65 percent of the costs of the new technology (or 75 percent of the costs for technologies designated as Qualified Infectious Disease Products (QIDPs) or approved under the Limited Population Pathway for Antifungal and Anti-HIV Drugs (LPAD) pathway); or (2) 65 percent of the amount by which the costs of the case exceed the standard MS–DRG payment for the case (or 75 percent of the amount for technologies designated as QIDPs or approved under the LPAD pathway).

Because it is difficult to predict the actual new technology add-on payment for each case, our estimates in this proposed rule are based on applicant’s estimate at the time they submitted their original application and the increase in new technology add-on payments for FY 2022 as if every claim that would qualify for a new technology add-on payment would receive the maximum add-on payment. In the following table are estimates for the 23 technologies for which we are proposing to continue to make new technology add-on payments in FY 2022:

<table>
<thead>
<tr>
<th>Technology Name</th>
<th>Proposed FY 2022 NTAP amount (65% or 75%)</th>
<th>Estimated Total FY 2022 Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andexa Xa</td>
<td>$18,281.25</td>
<td>$98,755,312.50</td>
</tr>
<tr>
<td>Azedra</td>
<td>$98,150.00</td>
<td>$39,260,000.00</td>
</tr>
<tr>
<td>BAROSTIM NEO System</td>
<td>$22,700.00</td>
<td>$16,425,500.00</td>
</tr>
<tr>
<td>Caplacizumab</td>
<td>$33,215.00</td>
<td>$4,351,165.00</td>
</tr>
<tr>
<td>ContaCT</td>
<td>$1,040.00</td>
<td>$72,109,440.00</td>
</tr>
<tr>
<td>Erdafitinib (Balversa)</td>
<td>$3,563.23</td>
<td>$178,161.50</td>
</tr>
<tr>
<td>Esketamine (SPRAVATO)</td>
<td>$1,014.79</td>
<td>$6,494,656.00</td>
</tr>
<tr>
<td>Eluvia Drug-Eluting Vascular Stent System</td>
<td>$3,646.50</td>
<td>$8,944,864.50</td>
</tr>
<tr>
<td>Elzonris</td>
<td>254,488.05</td>
<td>$30,983,668.35</td>
</tr>
<tr>
<td>FETROJA</td>
<td>$7,319.86</td>
<td>$50,330,710.30</td>
</tr>
<tr>
<td>Hemospray</td>
<td>$1,625.00</td>
<td>$20,637,500.00</td>
</tr>
<tr>
<td>IMFINZI®/TECENTRIQ</td>
<td>$6,875.90</td>
<td>$29,538,866.40</td>
</tr>
<tr>
<td>Jakafi</td>
<td>$4,096.21</td>
<td>$573,469.40</td>
</tr>
<tr>
<td>NUZYRA</td>
<td>$1,552.50</td>
<td>$26,235,697.50</td>
</tr>
<tr>
<td>Optimizer System</td>
<td>$14,950.00</td>
<td>$22,425,000.00</td>
</tr>
<tr>
<td>RECARBRIO</td>
<td>$3,532.78</td>
<td>$2,691,978.36</td>
</tr>
<tr>
<td>Soliris</td>
<td>$21,199.75</td>
<td>$290,012,580.00</td>
</tr>
<tr>
<td>Spinejack</td>
<td>$3,654.72</td>
<td>$5,745,219.84</td>
</tr>
<tr>
<td>T2 Bacteria Test Panel</td>
<td>$497.50</td>
<td>$3,669,802.50</td>
</tr>
<tr>
<td>XENLETA</td>
<td>$1,275.75</td>
<td>$44,965,084.50</td>
</tr>
<tr>
<td>Xospata</td>
<td>$7,312.50</td>
<td>$13,710,937.50</td>
</tr>
<tr>
<td>ZERBAXA</td>
<td>$1,836.98</td>
<td>$55,324,326.66</td>
</tr>
<tr>
<td>Zemdri</td>
<td>$4,083.75</td>
<td>$10,209,375.00</td>
</tr>
</tbody>
</table>


In sections II.F.5. and 6. of the preamble to this proposed rule, we discuss 37 technologies for which we received applications for add-on payments for new medical services and technologies for FY 2022. We note that five applicants withdrew their application prior to the issuance of this proposed rule. As explained in the preamble to this proposed rule, add-on payments for new medical services and technologies under section 1886(d)(5)(K) of the Act are not required to be budget neutral. As discussed in section II.F.6. of the preamble of this proposed rule, under the alternative pathway for new technology add-on payments, new technologies that are medical products with a QIDP designation, approved through the FDA LPAD pathway, or are part of the...
Breakthrough Device program will be considered new and not substantially similar to an existing technology and will not need to demonstrate that the technology represents a substantial clinical improvement. These technologies must still meet the cost criterion.

As also discussed in section II.F.6. of the preamble of this proposed rule, we are proposing to approve 14 of the 16 alternative pathway applications for FY 2022 new technology add-on payments. We note that for one technology, the 3-year anniversary date of entry into the U.S. market will occur in FY 2021, and therefore we do not believe that the device is eligible for new technology add-on payments for FY 2022. We also note that another technology does not appear to include any operating costs and therefore no new technology add-on payment would be made because, as discussed in prior rulemaking and noted previously, we only make new technology add-on payments for operating costs (72 FR 47307 and 47308).

Based on preliminary information from the applicants at the time of this proposed rule, we estimate that total payments for the 16 technologies that applied under the alternative pathway, if approved, would be approximately $80 million for FY 2022. Total estimated FY 2022 payments for new technologies that are designated as a QDIP would be approximately $58 million, and total estimated FY 2022 payments for new technologies that are part of the Breakthrough Device program would be approximately $22 million. We note that these estimated payments may be updated in the final rule based on revised or additional information CMS receives prior to the final rule.

We have not yet determined whether any of the 21 technologies that applied under the traditional pathway discussed in section II.F.5. of the preamble of this proposed rule will meet the proposed new technology add-on payments for FY 2022. Consequently, it is premature to estimate the potential payment impact of these 21 technologies for any potential new technology add-on payments for FY 2022. We note that, as in past years, if any of the 21 technologies that applied under the traditional pathway are found to be eligible for new technology add-on payments for FY 2022, in the FY 2022 IPPS/LTCH PPS final rule, we would discuss the estimated payment impact for FY 2022.

c. Proposed Changes to FY 2022 New COVID–19 Treatments Add-On Payment (NCTAP)

As discussed in section II.F. of the preamble of this proposed rule, in response to the COVID–19 PHE, we established the NCTAP under the IPPS for COVID–19 cases that meet certain criteria (85 FR 71157 and 71158). In this proposed rule we are proposing to extend the NCTAP for eligible products that have been approved for new technology add-on payments through the end of the fiscal year in which the PHE ends (for example, September 30, 2022). We are also proposing to discontinue the NCTAP for discharges on or after October 1, 2021 for a product that is approved for new technology add-on payments beginning FY 2022. Given that it is unknown what the cost and utilization of inpatient stays using these new treatments will be, the net overall cost of the proposed extension of the NCTAP is not estimable. On one extreme, if all of the new COVID–19 treatments decrease the net cost of hospitalizations (for example, due to shortened lengths of stay), including the cost of the new treatment, below the Medicare payment for discharges after the end of the PHE and through the end of the fiscal year in which the PHE ends, there would be no NCTAP made and no additional cost to the Medicare program as a result of this proposed extension. On the other extreme, if all of the new COVID–19 treatments result in the net cost of hospitalizations that exceed the outlier threshold (for example, due to the cost of the new treatment) for discharges after the end of the PHE and through the end of the fiscal year in which the PHE ends, the cost to the Medicare program would be the sum over all such NCTAP cases of 0.65 times the outlier threshold for each case.

2. Effects of the Proposed Changes to Medicare DSH and Uncompensated Care Payments for FY 2022

a. Proposed Revision of the Regulations To Ensure Only Appropriate Days Are Counted in the Numerator of the Medicaid Fraction

As discussed in section V.F. of the preamble of this proposed rule, we are proposing to revise the regulation governing the DSH calculation to ensure that the only section 1115 days that may be counted in the numerator of the Medicaid fraction are the days of patients for whom a section 1115 waiver provides inpatient hospital insurance coverage benefits directly to that patient on that day. To the extent that this proposal has an impact on expenditures, that impact is not estimable because we do not have information on the number of section 1115 days by hospital, which would be required to make an estimate.

b. Medicare DSH Uncompensated Care Payment Proposals for FY 2022

As discussed in section V.E. of the preamble of this proposed rule, under section 3133 of the Affordable Care Act, hospitals that are eligible to receive Medicare DSH payments will receive 25 percent of the amount they previously would have received under the statutory formula for Medicare DSH payments specified in section 1886(d)(5)(F) of the Act. The remainder, equal to an estimate of 75 percent of what formerly would have been paid as Medicare DSH payments (Factor 1), reduced to reflect changes in the percentage of uninsured individuals and any additional statutory adjustment (Factor 2), is available to make additional payments to each hospital that qualifies for Medicare DSH payments and that has uncompensated care. Each hospital eligible for Medicare DSH payments will receive an additional payment based on the product of the total amount of uncompensated care for all hospitals eligible for Medicare DSH payments. The uncompensated care payment methodology has redistributive effects based on the proportion of a hospital’s amount of uncompensated care relative to the aggregate amount of uncompensated care of all hospitals eligible for Medicare DSH payments (Factor 3). The change to Medicare DSH payments under section 3133 of the Affordable Care Act is not budget neutral.

In this proposed rule, we are proposing to establish the amount to be distributed as uncompensated care payments to DSH eligible hospitals, which for FY 2022 is $7,627,628,282.10. This figure represents 75 percent of the amount that otherwise would have been paid for Medicare DSH payment adjustments adjusted by a proposed Factor 2 of 72.14 percent. For FY 2021, the amount available to be distributed for uncompensated care was $8,290,014,520.96 or 75 percent of the amount that otherwise would have been paid for Medicare DSH payment adjustments adjusted by a Factor 2 of 72.86 percent. Consistent with the policy adopted in the FY 2021 IPPS/LTCH PPS final rule for FY 2022 and subsequent fiscal years, we will use a single year of data on uncompensated care costs from Worksheet S–10 of the FY 2018 cost reports to calculate Factor 3 in the FY 2022 methodology for all eligible hospitals with the exception of Indian Health Service (IHS) and Tribal hospitals and Puerto Rico Hospitals. To calculate Factor 3 for Puerto Rico hospitals and Indian Health Service and Tribal hospitals, we are proposing to use data regarding Medicaid utilization from 2013 cost reports from the most recent HCRIIS database extract and the most recent available SSI days (or, for Puerto Rico hospitals, a proxy for Medicaid SSI utilization data). For a complete discussion of the proposed methodology for calculating Factor 3, we refer readers to section V.E.4. of the preamble of this proposed rule.

To estimate the impact of the combined effect of proposed changes in Factors 1 and 2, as well as the changes to the data used in determining Factor 3, on the calculation of Medicare uncompensated care payments, we compared total uncompensated care payments estimated in the FY 2021 IPPS/LTCH PPS final rule to total uncompensated care payments estimated in this FY 2022 IPPS/LTCH PPS proposed rule. For FY 2021, we calculated 75 percent of the estimated amount that would be paid as Medicare DSH payments absent section 3133 of the Affordable Care Act, adjusted by a Factor 2 of 72.86 percent and multiplied by a Factor 3 calculated using the methodology described previously. For FY 2022, we calculated 75 percent of the estimated amount that would be paid as Medicare DSH payments absent section 3133 of the Affordable Care Act, adjusted by a proposed Factor 2 of 72.14 percent and multiplied by a Factor 3 calculated using the methodology described previously.

Our analysis included 2,378 hospitals that are projected to be eligible for DSH in FY 2022. It did not include hospitals that had terminated their participation in the Medicare program as of January 28, 2021. Maryland hospitals, new hospitals, MDHs, and SCHs that are expected to be paid based on their hospital-specific rates. The 27 hospitals participating in the Rural Community Hospital Demonstration Program were excluded from this analysis, as
participating hospitals are not eligible to receive empirically justified Medicare DSH payments and uncompensated care payments. In addition, the data from merged or acquired hospitals were combined under the surviving hospital’s CMS certification number (CCN), and the non-surviving CCN was excluded from the analysis. The estimated impact of the proposed changes in Factors 1, 2, and 3 on uncompensated care payments across all hospitals projected to be eligible for DSH payments in FY 2022, by hospital characteristic, is presented in the following table.

<table>
<thead>
<tr>
<th>Modeled Uncompensated Care Payments for Estimated FY 2022 DSHs by Hospital Type: Model Uncompensated Care Payments ($ in Millions)* - from FY 2021 to FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Estimated DSHs</strong></td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>By Geographic Location</strong></td>
</tr>
<tr>
<td>Urban Hospitals</td>
</tr>
<tr>
<td>Large Urban Areas</td>
</tr>
<tr>
<td>Other Urban Areas</td>
</tr>
<tr>
<td>Rural Hospitals</td>
</tr>
<tr>
<td><strong>Bed Size (Urban)</strong></td>
</tr>
<tr>
<td>0 to 99 Beds</td>
</tr>
<tr>
<td>100 to 249 Beds</td>
</tr>
<tr>
<td>250+ Beds</td>
</tr>
<tr>
<td><strong>Bed Size (Rural)</strong></td>
</tr>
<tr>
<td>0 to 99 Beds</td>
</tr>
<tr>
<td>100 to 249 Beds</td>
</tr>
<tr>
<td>250+ Beds</td>
</tr>
<tr>
<td><strong>Urban by Region</strong></td>
</tr>
<tr>
<td>New England</td>
</tr>
<tr>
<td>Middle Atlantic</td>
</tr>
<tr>
<td>South Atlantic</td>
</tr>
<tr>
<td>East North Central</td>
</tr>
<tr>
<td>East South Central</td>
</tr>
<tr>
<td>West North Central</td>
</tr>
<tr>
<td>West South Central</td>
</tr>
<tr>
<td>Mountain</td>
</tr>
<tr>
<td>Pacific</td>
</tr>
<tr>
<td>Puerto Rico</td>
</tr>
<tr>
<td><strong>Rural by Region</strong></td>
</tr>
<tr>
<td>New England</td>
</tr>
<tr>
<td>Middle Atlantic</td>
</tr>
<tr>
<td>South Atlantic</td>
</tr>
<tr>
<td>East North Central</td>
</tr>
</tbody>
</table>
The changes in projected FY 2022 uncompensated care payments from payments in FY 2021 are driven by a proposed decrease in Factor 1 and a proposed decrease in Factor 2, as well as by a decrease in the number of hospitals projected to receive DSH in FY 2022 relative to FY 2021. The proposed Factor 1 has decreased from FY 2021 final rule's Factor 1 of $11.378 billion to this proposed rule's Factor 1 of $10.573 billion, while the proposed percent change in the percent of individuals who are uninsured (Factor 2) has decreased from 72.86 percent to 72.14 percent. Based on the proposed changes in these two factors, the impact analysis found that, across all projected DSH eligible hospitals, proposed FY 2022 uncompensated care payments are estimated at approximately $7.628 billion, or a proposed decrease of approximately 7.99 percent from FY 2021 uncompensated care payments (approximately $8.290 billion). While these proposed changes would result in a net decrease in the amount available to be distributed in uncompensated care payments, the projected payment decreases vary by hospital type. This redistribution of uncompensated care payments is caused by proposed changes in Factor 3. As seen in the previous table, a percent change of less than negative 7.99 percent indicates that hospitals within the specified category are projected to experience a larger decrease in uncompensated care payments, on average, compared to the universe of projected FY 2022 DSH hospitals. Conversely, a percent change greater than negative 7.99 percent indicates that a hospital type is projected to have a smaller decrease than the overall average. Similarly, a positive percent change indicates an increase in uncompensated care payments. The variation in the distribution of payments by hospital characteristic is largely dependent on a given hospital's uncompensated care costs as reported in the Worksheet S–10, or number of Medicaid days and SSI days for Puerto Rico hospitals and Indian Health Service and Tribal hospitals, used in the Factor 3 computation.

<table>
<thead>
<tr>
<th>Modeled Uncompensated Care Payments for Estimated FY 2022 DSHs by Hospital Type: Model Uncompensated Care Payments ($ in Millions)* - from FY 2021 to FY 2022</th>
<th>FY 2021 Number of Estimated DSHs</th>
<th>FY 2021 Proposed Rule Estimated Uncompensated Care Payments ($ in millions)</th>
<th>FY 2022 Proposed Rule Estimated Uncompensated Care Payments ($ in millions)</th>
<th>Dollar Difference: FY 2021 - FY 2022 ($ in millions)</th>
<th>Percent Change**</th>
</tr>
</thead>
<tbody>
<tr>
<td>East South Central</td>
<td>84</td>
<td>135</td>
<td>129</td>
<td>-6</td>
<td>-4.46</td>
</tr>
<tr>
<td>West North Central</td>
<td>123</td>
<td>102</td>
<td>89</td>
<td>-13</td>
<td>-13.14</td>
</tr>
<tr>
<td>West South Central</td>
<td>108</td>
<td>105</td>
<td>93</td>
<td>-12</td>
<td>-11.17</td>
</tr>
<tr>
<td>Mountain</td>
<td>23</td>
<td>19</td>
<td>15</td>
<td>-5</td>
<td>-24.47</td>
</tr>
<tr>
<td>Pacific</td>
<td>5</td>
<td>7</td>
<td>5</td>
<td>-1</td>
<td>-21.22</td>
</tr>
<tr>
<td><strong>By Payment Classification</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban Hospitals</td>
<td>1,498</td>
<td>5,429</td>
<td>5,016</td>
<td>-413</td>
<td>-7.61</td>
</tr>
<tr>
<td>Large Urban Areas</td>
<td>834</td>
<td>3,540</td>
<td>3,240</td>
<td>-300</td>
<td>-8.47</td>
</tr>
<tr>
<td>Other Urban Areas</td>
<td>664</td>
<td>1,890</td>
<td>1,776</td>
<td>-113</td>
<td>-5.99</td>
</tr>
<tr>
<td>Rural Hospitals</td>
<td>880</td>
<td>2,861</td>
<td>2,611</td>
<td>-249</td>
<td>-8.72</td>
</tr>
<tr>
<td><strong>Teaching Status</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonteaching</td>
<td>1,381</td>
<td>2,444</td>
<td>2,260</td>
<td>-185</td>
<td>-7.55</td>
</tr>
<tr>
<td>Fewer than 100 residents</td>
<td>744</td>
<td>2,869</td>
<td>2,639</td>
<td>-230</td>
<td>-8.01</td>
</tr>
<tr>
<td>100 or more residents</td>
<td>253</td>
<td>2,977</td>
<td>2,729</td>
<td>-248</td>
<td>-8.33</td>
</tr>
<tr>
<td><strong>Type of Ownership</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voluntary</td>
<td>1,433</td>
<td>4,556</td>
<td>4,221</td>
<td>-334</td>
<td>-7.34</td>
</tr>
<tr>
<td>Proprietary</td>
<td>575</td>
<td>1,217</td>
<td>1,139</td>
<td>-78</td>
<td>-6.40</td>
</tr>
<tr>
<td>Government</td>
<td>370</td>
<td>2,517</td>
<td>2,267</td>
<td>-250</td>
<td>-9.94</td>
</tr>
<tr>
<td><strong>Medicare Utilization Percent</strong>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 to 25</td>
<td>554</td>
<td>3,388</td>
<td>3,108</td>
<td>-280</td>
<td>-8.27</td>
</tr>
<tr>
<td>25 to 50</td>
<td>1,613</td>
<td>4,707</td>
<td>4,355</td>
<td>-352</td>
<td>-7.48</td>
</tr>
<tr>
<td>50 to 65</td>
<td>253</td>
<td>2,977</td>
<td>2,729</td>
<td>-248</td>
<td>-8.33</td>
</tr>
<tr>
<td>Greater than 65</td>
<td>22</td>
<td>189</td>
<td>160</td>
<td>-29</td>
<td>-15.17</td>
</tr>
</tbody>
</table>

Source: Dobson | DeVanzo analysis of 2013 and 2018 Hospital Cost Reports.

* Dollar uncompensated care payments calculated by $0.75 * estimated section 1886(d)(5)(F) payments * Factor 2 * Factor 3.

When summed across all hospitals projected to receive DSH payments, uncompensated care payments are estimated to be $8,290 million in FY 2021 and $7,628 million in FY 2022.

** Percentage change is determined as the difference between Medicare uncompensated care payments modeled for this FY 2022 IPPS/LTC PPS proposed rule (column 3) and Medicare uncompensated care payments modeled for the FY 2021 IPPS/LTC PPS final rule correction notice (column 2) divided by Medicare uncompensated care payments modeled for the FY 2021 IPPS/LTC PPS final rule correction notice (column 2) times 100 percent.

***Hospitals with missing or unknown Medicare utilization are not shown in table.
Rural hospitals, in general, are projected to experience larger decreases in uncompensated care payments than their urban counterparts. Overall, rural hospitals are projected to receive an 11.27 percent decrease in uncompensated care payments, while urban hospitals are projected to receive a 7.79 percent decrease in uncompensated care payments.

By bed size, smaller rural hospitals are projected to receive the largest decreases in uncompensated care payments. Rural hospitals with 0–99 beds are projected to receive a 14.02 percent payment decrease, and rural hospitals with 100–249 beds are projected to receive a 9.86 percent decrease. These decreases for smaller rural hospitals are greater than the overall hospital average. However, larger rural hospitals with 250+ beds are projected to receive a smaller than average payment decrease of 1.57 percent. This trend is consistent among urban hospitals, with the smallest urban hospitals, those with 0–99 and 100–249 beds, projected to receive a decrease in uncompensated care payments that is greater than the overall hospital average, at 9.61 and 10.42 percent, respectively. In contrast, the largest urban hospitals with 250+ beds are projected to receive a 6.80 percent decrease in uncompensated care payments, which is a smaller decrease than the overall hospital average.

By region, rural hospitals are expected to receive larger than average decreases in uncompensated care payments in all Regions, except for rural hospitals in New England, which are projected to receive an increase of 4.68 percent in uncompensated care payments, and rural hospitals in the East South Central Region, which are projected to receive a smaller than average decrease of 4.46 percent. Regionally, urban hospitals are projected to receive a more varied range of payment changes. Urban hospitals in the New England, Middle Atlantic, East South Central, and Pacific Regions, as well as urban hospitals in Puerto Rico, are projected to receive larger than average decreases in uncompensated care payments. Urban hospitals in the South Atlantic, East North Central, West North Central, West South Central, and Mountain Regions are projected to receive smaller than average decreases in uncompensated care payments.

By payment classification, although hospitals in urban areas overall are expected to receive a 7.61 percent decrease in uncompensated care payments, hospitals in large urban areas are expected to see a decrease in uncompensated care payments of 8.47 percent, while hospitals in other urban areas are expected to receive a decrease in uncompensated care payments of 5.99 percent. Rural hospitals are projected to receive the largest decrease of 8.72 percent.

Nonteaching hospitals are projected to receive a payment decrease of 7.55 percent, teaching hospitals with fewer than 100 residents are projected to receive a payment decrease of 8.01 percent, and teaching hospitals with 100+ residents have a projected payment decrease of 8.33 percent. All of these decreases closely approximate the overall hospital average. Proprietary and voluntary hospitals are projected to receive smaller than average decreases of 6.40 and 7.34 percent respectively, while government hospitals are expected to receive a larger payment decrease of 9.94 percent. All hospitals with less than 50 percent Medicare utilization are projected to receive decreases in uncompensated care payments consistent with the overall hospital average percent change, while hospitals with 50–65 percent and greater than 65 percent Medicare utilization are projected to receive larger decreases of 15.17 and 27.46 percent, respectively.

3. Effects of Proposed Reductions Under the Hospital Readmissions Reduction Program for FY 2022

In section V.G. of the preamble of this proposed rule, we discuss our proposed policies for the FY 2022 Hospital Readmissions Reduction Program. This program requires a reduction to a hospital’s base operating DRG payment to account for excess readmissions of selected applicable conditions and procedures. The table and analysis in this proposed rule illustrate the estimated financial impact of the Hospital Readmissions Reduction Program payment adjustment methodology by hospital characteristic. For the purpose of modeling the proposed FY 2022 payment adjustment factors for this proposed rule, we used the payment adjustment factors from the FY 2021 Hospital Readmissions Reduction Program and the FY 2021 IPPS proposed rule Impact File to analyze results by hospital characteristics. Hospitals are stratified into quintiles based on the proportion of dual eligible stays among Medicare fee-for-service (FFS) and managed care stays between July 1, 2016 and June 30, 2019 (that is, the FY 2021 Hospital Readmissions Reduction Program’s performance period). Hospitals’ excess readmission ratios (ERRs) are assessed relative to their peer group median and a neutrality modifier is applied in the payment adjustment factor calculation to maintain budget neutrality. In the FY 2022 IPPS/LTCH PPS final rule, we will provide an updated estimate of the financial impact using the proportion of dually-eligible beneficiaries, excess readmission ratios, and aggregate payments for each condition/procedure and all discharges for applicable hospitals from the FY 2022 Hospital Readmissions Reduction Program applicable period (that is, July 1, 2017 through June 30, 2020). We note that for the FY 2022 applicable period, we will only be assessing data from July 1, 2017 through December 1, 2019 due to the COVID-19 public health emergency (PHE) nationwide Extraordinary Circumstance Exception (ECE) waiver which excluded data from January 1, 2020 through June 30, 2020 from the Hospital Readmissions Reduction Program calculations.\footnote{Although the FY 2022 applicable period is July 1, 2017 through June 30, 2020, we note that first and second quarter data from CY 2020 is excluded from consideration for scoring purposes due to the nationwide ECE that was granted in response to the COVID-19 PHE. Taking into consideration the 30-day window to identify readmissions, the period for calculating DRG payments would be adjusted to July 1, 2017 through December 1, 2019. Further information will be found in the FY 2022 Hospital Specific Report (HSR) User Guide located on QualityNet website at: https://qualitynet.cms.gov/hsr/reports that is anticipated to become available in August 2021.}
### Estimated Percentage of Hospitals Penalized and Penalty as Share of Payments for FY 2022 Hospital Readmissions Reduction Program by Hospital Characteristic

<table>
<thead>
<tr>
<th>Hospital Characteristic</th>
<th>Number of Eligible Hospitals[^a]</th>
<th>Number of Penalized Hospitals[^b]</th>
<th>Percentage of Hospitals Penalized[^c] (%)</th>
<th>Penalty as a Share of Payments[^d] (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Hospitals</td>
<td>2,986</td>
<td>2,545</td>
<td>85.23</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>By Geographic Location (n= 2,985)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban hospitals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-99 beds</td>
<td>2,256</td>
<td>1,958</td>
<td>86.79</td>
<td>0.68</td>
</tr>
<tr>
<td>100-199 beds</td>
<td>698</td>
<td>634</td>
<td>90.83</td>
<td>0.83</td>
</tr>
<tr>
<td>200-299 beds</td>
<td>417</td>
<td>386</td>
<td>92.57</td>
<td>0.76</td>
</tr>
<tr>
<td>300-399 beds</td>
<td>265</td>
<td>243</td>
<td>91.70</td>
<td>0.67</td>
</tr>
<tr>
<td>400-499 beds</td>
<td>140</td>
<td>125</td>
<td>89.29</td>
<td>0.61</td>
</tr>
<tr>
<td>500 or more beds</td>
<td>220</td>
<td>201</td>
<td>91.36</td>
<td>0.54</td>
</tr>
<tr>
<td>Rural hospitals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-49 beds</td>
<td>290</td>
<td>212</td>
<td>73.10</td>
<td>0.60</td>
</tr>
<tr>
<td>50-99 beds</td>
<td>260</td>
<td>209</td>
<td>80.38</td>
<td>0.71</td>
</tr>
<tr>
<td>100-149 beds</td>
<td>96</td>
<td>87</td>
<td>90.63</td>
<td>0.60</td>
</tr>
<tr>
<td>150-199 beds</td>
<td>44</td>
<td>40</td>
<td>90.91</td>
<td>0.68</td>
</tr>
<tr>
<td>200 or more beds</td>
<td>39</td>
<td>38</td>
<td>97.44</td>
<td>0.73</td>
</tr>
<tr>
<td><strong>By Teaching Status[^e] (n= 2,985)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-teaching</td>
<td>1,873</td>
<td>1,539</td>
<td>82.17</td>
<td>0.79</td>
</tr>
<tr>
<td>Fewer than 100 residents</td>
<td>854</td>
<td>766</td>
<td>89.70</td>
<td>0.69</td>
</tr>
<tr>
<td>100 or more residents</td>
<td>258</td>
<td>239</td>
<td>92.64</td>
<td>0.50</td>
</tr>
<tr>
<td><strong>By Ownership Type (n= 2,985)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>460</td>
<td>383</td>
<td>83.26</td>
<td>0.52</td>
</tr>
<tr>
<td>Proprietary</td>
<td>740</td>
<td>595</td>
<td>80.41</td>
<td>1.02</td>
</tr>
<tr>
<td>Voluntary</td>
<td>1,785</td>
<td>1,566</td>
<td>87.73</td>
<td>0.63</td>
</tr>
<tr>
<td><strong>By Safety-net Status[^f] (n= 2,985)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety-net hospitals</td>
<td>592</td>
<td>519</td>
<td>87.67</td>
<td>0.56</td>
</tr>
<tr>
<td>Non-safety-net hospitals</td>
<td>2,393</td>
<td>2,025</td>
<td>84.62</td>
<td>0.71</td>
</tr>
<tr>
<td><strong>By Disproportionate Share Hospital (DSH) Patient Percentage[^g] (n= 2,985)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-24</td>
<td>1,231</td>
<td>1,005</td>
<td>81.64</td>
<td>0.77</td>
</tr>
<tr>
<td>25-49</td>
<td>1,414</td>
<td>1,243</td>
<td>87.91</td>
<td>0.63</td>
</tr>
<tr>
<td>50-64</td>
<td>194</td>
<td>167</td>
<td>86.08</td>
<td>0.67</td>
</tr>
<tr>
<td>65 and over</td>
<td>146</td>
<td>129</td>
<td>88.36</td>
<td>0.52</td>
</tr>
<tr>
<td><strong>By Medicare Cost Report (MCR) Percentage[^h] (n= 2,976)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-24</td>
<td>480</td>
<td>412</td>
<td>85.83</td>
<td>0.49</td>
</tr>
<tr>
<td>25-49</td>
<td>2,070</td>
<td>1,782</td>
<td>86.09</td>
<td>0.69</td>
</tr>
<tr>
<td>50-64</td>
<td>374</td>
<td>310</td>
<td>82.89</td>
<td>0.93</td>
</tr>
<tr>
<td>65 and over</td>
<td>52</td>
<td>35</td>
<td>67.31</td>
<td>0.48</td>
</tr>
<tr>
<td><strong>By Region (n= 2,985)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>125</td>
<td>113</td>
<td>90.40</td>
<td>0.92</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>339</td>
<td>317</td>
<td>93.51</td>
<td>0.74</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>502</td>
<td>459</td>
<td>91.43</td>
<td>0.74</td>
</tr>
<tr>
<td>East North Central</td>
<td>468</td>
<td>394</td>
<td>84.19</td>
<td>0.66</td>
</tr>
<tr>
<td>East South Central</td>
<td>274</td>
<td>241</td>
<td>87.96</td>
<td>0.82</td>
</tr>
<tr>
<td>West North Central</td>
<td>240</td>
<td>187</td>
<td>77.92</td>
<td>0.44</td>
</tr>
<tr>
<td>West South Central</td>
<td>459</td>
<td>380</td>
<td>82.79</td>
<td>0.67</td>
</tr>
<tr>
<td>Mountain</td>
<td>217</td>
<td>161</td>
<td>74.19</td>
<td>0.53</td>
</tr>
<tr>
<td>Pacific</td>
<td>361</td>
<td>292</td>
<td>80.89</td>
<td>0.50</td>
</tr>
</tbody>
</table>
Efficiency and Cost Reduction, and Safety for the Person and Community Engagement, we are proposing to not award domain scores we are proposing to suppress. Additionally, improvement points for any of the measures would not generate achievement or would result in a value-based incentive payment such that the hospital would receive a value-based incentive payment to hospitals. The Hospital Consumer Assessment of Hospital Quality (HCAHPS) survey, Medicare Spending Per Beneficiary (MSPB) and five healthcare-associated infection (HAI) measures, as well as to the COVID-19 public health emergency (PHE) nationwide Extraordinary Circumstances Exception (ECE) waiver which excluded data from January 1, 2020 through June 30, 2020 from the Hospital Readmissions Reduction Program (HRRP) calculations. We expect that there would be a minimal impact on hospitals when 6 months of data are removed from Hospital Readmissions Reduction Program calculations.

- This column is the number of applicable hospitals within the characteristic that are eligible for a penalty (that is, they have 25 or more eligible discharges for at least one measure).
- This column is the number of applicable hospitals that are penalized (that is, they have 25 or more eligible discharges for at least one measure and an estimated payment adjustment factor less than 1) within the characteristic.
- This column is the percentage of applicable hospitals that are penalized among hospitals that are eligible to receive a penalty by characteristic.
- This column is calculated as the sum of all penalties for the group of hospitals with that characteristic divided by total base operating DRG payments for all those hospitals. MedPAR data from October 1, 2018 through September 30, 2019 (FY 2019), are used to estimate the total base operating DRG payments.
- The total number of hospitals with hospital characteristics data may not add up to the total number of hospitals because not all hospitals have data for all characteristics. Not all hospitals had data for geographic location (n=2,985; missing=1), teaching status (n=2,985; missing=1), ownership type (n=2,985; missing=1), safety-net status (n=2,985; missing=1), DSHP patient percentage (n=2,985; missing=1), MCR percentage (n=2,976; missing=10), and region (n=2,985; missing=1).
- A hospital is considered a safety-net hospital if it is in the top DSHP quintile.
- DSHP [Disproportionate Share Hospital] patient percentage is the sum of the percentage of Medicare inpatient days attributable to patients eligible for both Medicare Part A and Supplemental Security Income (SSI), and the percentage of total inpatient days attributable to patients eligible for Medicaid but not Medicare Part A.
- MCR [Medicare Cost Report] percentage is the percentage of total inpatient days from Medicare patients.

4. Effects of Proposed Changes Under the FY 2022 Hospital Value-Based Purchasing (VBP) Program

In section V. H. of the preamble of this proposed rule, we discuss the Hospital VBP Program under which the Secretary makes value-based incentive payments to hospitals based on their performance on measures during the performance period with respect to a fiscal year. We are proposing to suppress the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) survey, Medicare Spending Per Beneficiary (MSPB) and five healthcare-associated infection (HAI) measures, as well as to change the scoring and payment methodologies for the FY 2022 program year, such that the hospital would receive a value-based incentive payment percentage that results in a value-based incentive payment amount that is equal to the applicable percentage (2 percent). Specifically, we are proposing that we will calculate the measure rates for all of the measures we have selected for the FY 2022 program year, but that we would not generate achievement or improvement points for any of the measures we are proposing to suppress. Additionally, we are proposing to not award domain scores for the Person and Community Engagement, Efficiency and Cost Reduction, and Safety domains. Therefore, we would not award hospitals a TPS, and would instead award hospitals a payment incentive multiplier that results in a value-based incentive payment amount that is equal to the amount withheld for the fiscal year (2 percent). That is, each hospital would receive a 2 percent reduction to its base operating DRG payment amount for each FY 2022 discharge and will then receive a value-based incentive payment percentage that will result in a value-based incentive payment amount that is equal to the 2 percent withheld. If these proposals are finalized, the impact for every hospital under the Hospital VBP Program would be a net percentage payment adjustment of zero.

We are also providing the estimated impact of the FY 2022 program because those impacts would apply if the proposals, as previously discussed, are not finalized. We used TPSs from FY 2021 to calculate the proxy adjustment factors used for this impact analysis. We note that these FY 2021 TPSs were calculated using measure data from before the COVID-19 PHE was declared, and that if our proposals are not finalized, actual TPSs for the FY 2022 program year could be more variable than the FY 2021 TPSs due to the impacts of the COVID-19 PHE on FY 2022 data. These are the most recently available scores that hospitals were given an opportunity to review and correct. The proxy adjustment factors use estimated annual base operating DRG payment amounts derived from the December 2020 update to the FY 2020 MedPAR file. The proxy adjustment factors can be found in Table 16 associated with this proposed rule (available via the internet on the CMS website). This impact analysis shows that, for the FY 2022 program year, the number of hospitals that would receive an increase in their base operating DRG payment amount is lower than the number of hospitals that would receive a decrease. On average, urban hospitals in the New England region and rural hospitals in the East South Central region would have the highest positive percentage change in base operating DRG. Hospitals in the Urban Middle Atlantic, Urban South Atlantic, Urban West South Central, Rural New England, Rural Middle Atlantic, Rural South Atlantic, and Rural West South Central regions would experience an average negative percent change in base operating DRG. All other regions, both urban and rural, would experience an average positive percent change in base operating DRG payment amounts. As DSHP patient percent increases, the average percent change in the base operating DRG payment amounts would generally increase (excluding DSHP Percent = 50–65, for which the average percent change in the base operating DRG payment amounts would be lower than the average percent change in the base operating DRG payment amounts for all
other categories. With respect to hospitals’ Medicare utilization as a percent of inpatient days (MCR), as the MCR percent increases, the average percent change in the base operating DRG payment amounts would generally increase. On average, non-teaching hospitals would have a lower percentage change in their base operating DRG payment amounts compared to teaching hospitals; however, on average, both non-teaching hospitals and teaching hospitals would have a positive percentage change in their base operating DRG payment amounts.

<table>
<thead>
<tr>
<th>Estimated Adjustments to Base Operating DRG Payment Amounts Resulting from the FY 2022 Hospital VBP Program if Proposals Are Not Finalized</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BY GEOGRAPHIC LOCATION:</strong></td>
</tr>
<tr>
<td>All Hospitals</td>
</tr>
<tr>
<td>Large Urban</td>
</tr>
<tr>
<td>Other Urban</td>
</tr>
<tr>
<td>Rural Area</td>
</tr>
<tr>
<td><strong>Urban hospitals</strong></td>
</tr>
<tr>
<td>0-99 beds</td>
</tr>
<tr>
<td>100-199 beds</td>
</tr>
<tr>
<td>200-299 beds</td>
</tr>
<tr>
<td>300-499 beds</td>
</tr>
<tr>
<td>500 or more beds</td>
</tr>
<tr>
<td><strong>Rural hospitals</strong></td>
</tr>
<tr>
<td>0-49 beds</td>
</tr>
<tr>
<td>50-99 beds</td>
</tr>
<tr>
<td>100-149 beds</td>
</tr>
<tr>
<td>150-199 beds</td>
</tr>
<tr>
<td>200 or more beds</td>
</tr>
<tr>
<td><strong>BY REGION:</strong></td>
</tr>
<tr>
<td>Urban By Region</td>
</tr>
<tr>
<td>New England</td>
</tr>
<tr>
<td>Middle Atlantic</td>
</tr>
<tr>
<td>South Atlantic</td>
</tr>
</tbody>
</table>
The actual FY 2022 program year’s TPSs would not be reviewed and corrected by hospitals until after the FY 2022 IPPS/LTCH PPS final rule has been published. Therefore, the same historical universe of eligible hospitals and corresponding TPSs from the FY 2021 program year would be used for the updated impact analysis in the final rule, if the proposals, as previously described, for FY 2022 are not finalized.

We note that we are also proposing to suppress the MORT–30–PN measure for the FY 2023 program year. If this proposal is finalized, we would calculate the measure rate for the MORT–30–PN program year.

<table>
<thead>
<tr>
<th>Estimated Adjustments to Base Operating DRG Payment Amounts Resulting from the FY 2022 Hospital VBP Program if Proposals Are Not Finalized</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Hospitals</strong></td>
</tr>
<tr>
<td>East North Central</td>
</tr>
<tr>
<td>East South Central</td>
</tr>
<tr>
<td>West North Central</td>
</tr>
<tr>
<td>West South Central</td>
</tr>
<tr>
<td>Mountain</td>
</tr>
<tr>
<td>Pacific</td>
</tr>
<tr>
<td>Rural By Region</td>
</tr>
<tr>
<td>New England</td>
</tr>
<tr>
<td>Middle Atlantic</td>
</tr>
<tr>
<td>South Atlantic</td>
</tr>
<tr>
<td>East North Central</td>
</tr>
<tr>
<td>East South Central</td>
</tr>
<tr>
<td>West North Central</td>
</tr>
<tr>
<td>West South Central</td>
</tr>
<tr>
<td>Mountain</td>
</tr>
<tr>
<td>Pacific</td>
</tr>
<tr>
<td>By MCR Percent</td>
</tr>
<tr>
<td>0-25</td>
</tr>
<tr>
<td>25-50</td>
</tr>
<tr>
<td>50-65</td>
</tr>
<tr>
<td>Over 65</td>
</tr>
<tr>
<td>Missing</td>
</tr>
<tr>
<td>BY DSH Percent:</td>
</tr>
<tr>
<td>0-25</td>
</tr>
<tr>
<td>25-50</td>
</tr>
<tr>
<td>50-65</td>
</tr>
<tr>
<td>Over 65</td>
</tr>
<tr>
<td>BY TEACHING STATUS:</td>
</tr>
<tr>
<td>Non-Teaching</td>
</tr>
<tr>
<td>Teaching</td>
</tr>
</tbody>
</table>
however, we would not generate achievement or improvement points for that measure. At this time, we have not proposed to suppress any other measures for the FY 2023 program year. Therefore, we are not proposing any changes to the scoring methodology for the FY 2023 program in this proposed rule. Hospitals will still receive achievement and improvement points on the remaining measures for which they report the minimum number of cases, and they will receive scores on domains for which they report the minimum number of measures for the FY 2023 program year. The domain scores, weighted at 25 percent each, will be used to calculate TPSs for the FY 2023 program year. We are also proposing to remove the CMS PSI 90 measure beginning with the FY 2023 program year. However, because we are proposing to remove this measure before it would be used in calculating a hospital’s TPS under the Hospital VBP Program, we do not expect this proposal will have impacts for the FY 2023 program year.

5. Effects Under the HAC Reduction Program for FY 2022

We are presenting the estimated impact of the FY 2022 Hospital-Acquired Condition (HAC) Reduction Program on hospitals by hospital characteristic in the following two tables. These FY 2022 HAC Reduction Program results were calculated using the Equal Measure Weights approach finalized in the FY 2019 IPPS/LTCI PPS final rule (83 FR 41486 through 41489). Each hospital’s Total HAC Score was calculated as the equally weighted average of the hospital’s measure scores. The tables in this section present the estimated proportion of hospitals in the worst-performing quartile of Total HAC Scores by hospital characteristic. The first table shows the estimated proportion of hospitals in the worst-performing quartile of Total HAC Scores using the proposed one-year performance period for the HAI measures if the measure suppression policy proposed in section IX.1.3.d. of the preamble of this proposed rule is finalized and adopted for the FY 2022 program year. The second table shows the estimated proportion of hospitals in the worst-performing quartile of Total HAC Scores using the previously finalized two-year performance period for the HAI measures.

The first table calculates hospitals’ CMS Patient Safety and Adverse Events Composite (CMS PSI 90) measure results based on Medicare fee-for-service (FFS) discharges from July 1, 2016 and December 31, 2017 and version 9.0 of the PSI software. Hospitals’ measure results for the Centers for Disease Control and Prevention (CDC) Central Line-Associated Bloodstream Infection (CLABSI), Catheter-Associated Urinary Tract Infection (CAUTI), Colon and Abdominal Hysterectomy Surgical Site Infection (SSI), Methicillin-resistant Staphylococcus aureus (MRSA) bacteremia, and Clostridium difficile Infection (CDI) measures are derived from standardized infection ratios (SIRs) calculated with hospital surveillance data reported to the National Healthcare Safety Network (NHSN) for infections occurring between January 1, 2017 and December 31, 2017. These results are based on the FY 2020 Final Rule Impact Table and estimate the impacts of the measure suppression policy by excluding 6 months of CMS PSI 90 data and 12 months of CDC measure data. For the second table, hospitals’ CMS PSI 90 measure results are based on Medicare fee-for-service (FFS) discharges from July 1, 2018 through December 31, 2019 and version 11.0 of the PSI software. Hospitals’ measure results for CDC CLABSI, CAUTI, Colon and Abdominal Hysterectomy SSI, MRSA bacteremia, and CDI measures are derived from standardized infection ratios (SIRs)

1528 Although the FY 2022 applicable period for the CMS PSI 90 measure is July 1, 2018 through June 30, 2020, we note that first and second quarter data from CY 2020 is excluded from consideration for scoring purposes due to the nationwide ECE that was granted in response to the COVID–19 public health emergency. CMS, ‘Medicare and Medicaid Programs, Clinical Laboratory Improvement Amendments (CLIA), and Patient Protection and Affordable Care Act: Additional Policy and Regulatory Revisions in Response to the COVID–19 Public Health Emergency’ 85 FR 54820. calculated with hospital surveillance data reported to the NHSN for infections occurring between January 1, 2018 and December 31, 2019. To analyze the results by hospital characteristic, we used the FY 2021 Final Rule Impact File. Both tables are based on historical data and may not reflect the actual impacts of the COVID–19 PHE.

While both tables are presented in this section and their format is the same, we use values from the first table in this text as an examples because the length of data periods match the measure suppression policy proposed in section IX.1.3.d. of the preamble of this proposed rule. The table includes 3,169 non-Maryland hospitals with a FY 2022 Total HAC Score. Maryland hospitals and hospitals without a Total HAC Score are excluded from the table. The first column presents a breakdown of each characteristic and the second column indicates the number of hospitals for the respective characteristic.

The third column in the table indicates the number of hospitals for each characteristic that would be in the worst-performing quartile of Total HAC Scores. These hospitals would receive a payment reduction under the FY 2022 HAC Reduction Program. For example, with regard to teaching status, 475 hospitals out of 1,988 hospitals characterized as non-teaching hospitals would be subject to a payment reduction. Among teaching hospitals, 199 out of 891 hospitals with fewer than 100 residents and 103 out of 260 hospitals with 100 or more residents would be subject to a payment reduction.

The fourth column in the table indicates the proportion of hospitals for each characteristic that would be in the worst-performing quartile of Total HAC Scores and thus receive a payment reduction under the FY 2022 HAC Reduction Program. For example, 23.9 percent of the 1,988 hospitals characterized as non-teaching hospitals, 22.3 percent of the 891 teaching hospitals with fewer than 100 residents, and 39.6 percent of the 260 teaching hospitals with 100 or more residents would be subject to a payment reduction.
<table>
<thead>
<tr>
<th>Hospital Characteristic</th>
<th>Number of Hospitals</th>
<th>Number of Hospitals in the Worst-performing Quartile&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Percent of Hospitals in the Worst-performing Quartile&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total&lt;sup&gt;c&lt;/sup&gt;</td>
<td>3,169</td>
<td>791</td>
<td>25</td>
</tr>
<tr>
<td><strong>By Geographic Location</strong>&lt;sup&gt;d&lt;/sup&gt; (n = 3,139)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban hospitals</td>
<td>2,384</td>
<td>572</td>
<td>24</td>
</tr>
<tr>
<td>1-99 beds</td>
<td>600</td>
<td>123</td>
<td>20.5</td>
</tr>
<tr>
<td>100-199 beds</td>
<td>725</td>
<td>172</td>
<td>23.7</td>
</tr>
<tr>
<td>200-299 beds</td>
<td>418</td>
<td>112</td>
<td>26.8</td>
</tr>
<tr>
<td>300-399 beds</td>
<td>279</td>
<td>70</td>
<td>25.1</td>
</tr>
<tr>
<td>400-499 beds</td>
<td>139</td>
<td>36</td>
<td>25.9</td>
</tr>
<tr>
<td>500 or more beds</td>
<td>223</td>
<td>59</td>
<td>26.5</td>
</tr>
<tr>
<td>Rural hospitals</td>
<td>755</td>
<td>205</td>
<td>27.2</td>
</tr>
<tr>
<td>1-49 beds</td>
<td>323</td>
<td>91</td>
<td>28.2</td>
</tr>
<tr>
<td>50-99 beds</td>
<td>259</td>
<td>78</td>
<td>30.1</td>
</tr>
<tr>
<td>100-149 beds</td>
<td>95</td>
<td>18</td>
<td>18.9</td>
</tr>
<tr>
<td>150-199 beds</td>
<td>39</td>
<td>10</td>
<td>25.6</td>
</tr>
<tr>
<td>200 or more beds</td>
<td>39</td>
<td>8</td>
<td>20.5</td>
</tr>
<tr>
<td><strong>By Safety-Net Status</strong>&lt;sup&gt;e&lt;/sup&gt; (n = 3,139)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-safety net</td>
<td>2,499</td>
<td>563</td>
<td>22.5</td>
</tr>
<tr>
<td>Safety-net</td>
<td>640</td>
<td>214</td>
<td>33.4</td>
</tr>
<tr>
<td><strong>By DSH Percent</strong>&lt;sup&gt;f&lt;/sup&gt; (n = 3,139)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-24</td>
<td>1,312</td>
<td>272</td>
<td>20.7</td>
</tr>
<tr>
<td>25-49</td>
<td>1,462</td>
<td>370</td>
<td>25.3</td>
</tr>
<tr>
<td>50-64</td>
<td>199</td>
<td>76</td>
<td>38.2</td>
</tr>
<tr>
<td>65 and over</td>
<td>166</td>
<td>59</td>
<td>35.5</td>
</tr>
<tr>
<td><strong>By Teaching Status</strong>&lt;sup&gt;g&lt;/sup&gt; (n = 3,139)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-teaching</td>
<td>1,988</td>
<td>475</td>
<td>23.9</td>
</tr>
<tr>
<td>Fewer than 100 residents</td>
<td>891</td>
<td>199</td>
<td>22.3</td>
</tr>
<tr>
<td>100 or more residents</td>
<td>260</td>
<td>103</td>
<td>39.6</td>
</tr>
<tr>
<td><strong>By Ownership</strong>&lt;sup&gt;h&lt;/sup&gt; (n = 3,139)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voluntary</td>
<td>1,851</td>
<td>444</td>
<td>24</td>
</tr>
<tr>
<td>Proprietary</td>
<td>806</td>
<td>180</td>
<td>22.3</td>
</tr>
<tr>
<td>Government</td>
<td>482</td>
<td>153</td>
<td>31.7</td>
</tr>
<tr>
<td><strong>By MCR Percent</strong>&lt;sup&gt;i&lt;/sup&gt; (n = 3,136)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-24</td>
<td>595</td>
<td>160</td>
<td>26.9</td>
</tr>
<tr>
<td>25-49</td>
<td>2,120</td>
<td>501</td>
<td>23.6</td>
</tr>
<tr>
<td>50-64</td>
<td>373</td>
<td>102</td>
<td>27.3</td>
</tr>
<tr>
<td>65 and over</td>
<td>48</td>
<td>13</td>
<td>27.1</td>
</tr>
<tr>
<td><strong>By Region</strong>&lt;sup&gt;j&lt;/sup&gt; (n = 3,169)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>131</td>
<td>34</td>
<td>26</td>
</tr>
<tr>
<td>Region</td>
<td>Total</td>
<td>Worst-Performing</td>
<td>Quartile</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
<td>-----------------</td>
<td>----------</td>
</tr>
<tr>
<td>Mid-Atlantic</td>
<td>358</td>
<td>101</td>
<td>28.2</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>518</td>
<td>137</td>
<td>26.4</td>
</tr>
<tr>
<td>East North Central</td>
<td>491</td>
<td>118</td>
<td>24</td>
</tr>
<tr>
<td>East South Central</td>
<td>292</td>
<td>69</td>
<td>23.6</td>
</tr>
<tr>
<td>West North Central</td>
<td>253</td>
<td>57</td>
<td>22.5</td>
</tr>
<tr>
<td>West South Central</td>
<td>503</td>
<td>113</td>
<td>22.5</td>
</tr>
<tr>
<td>Mountain</td>
<td>227</td>
<td>55</td>
<td>24.2</td>
</tr>
<tr>
<td>Pacific</td>
<td>396</td>
<td>107</td>
<td>27</td>
</tr>
</tbody>
</table>

Source: FY 2022 HAC Reduction Program proposed rule results are based on CMS PSI 90 data from July 1, 2016 through December 31, 2018 and CDC NHSN HAI results from January 1, 2018 through December 31, 2018. Hospital Characteristics are based on the FY 2021 Proposed Rule Impact File.

- This column is the number of non-Maryland hospitals with a Total HAC Score within the corresponding characteristic that are estimated to be in the worst-performing quartile.
- This column is the percent of non-Maryland hospitals within each characteristic that are estimated to be in the worst-performing quartile. The percentages are calculated by dividing the number of non-Maryland hospitals with a Total HAC Score in the worst-performing quartile by the total number of non-Maryland hospitals with a Total HAC Score within that characteristic.
- The number of non-Maryland hospitals with a FY 2022 Total HAC Score (N = 3,169). Note that not all hospitals have data for all hospital characteristics.
- The number of hospitals that had information for geographic location with bed size, Safety-net status, DSH percent, and teaching status (n = 3,139).
- A hospital is considered a Safety-net hospital if it is in the top quintile for DSH percent.
- The DSH patient percentage is equal to the sum of: (1) the percentage of Medicare inpatient days attributable to patients eligible for both Medicare Part A and Supplemental Security Income; and (2) the percentage of total inpatient days attributable to patients eligible for Medicaid but not Medicare Part A.
- A hospital is considered a teaching hospital if it has an IME adjustment factor for Operation PPS (TCHOP) greater than zero.
- Not all hospitals had data for Ownership (n = 3,139).
- Not all hospitals had data for MCR percent (n = 3,136).
- All hospitals had data for Region (n = 3,169).
<table>
<thead>
<tr>
<th>Hospital Characteristic</th>
<th>Number of Hospitals</th>
<th>Number of Hospitals in the Worst-performing Quartile&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Percent of Hospitals in the Worst-performing Quartile&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong> &lt;sup&gt;c&lt;/sup&gt;</td>
<td>3,075</td>
<td>768</td>
<td>25</td>
</tr>
<tr>
<td><strong>By Geographic Location</strong> &lt;sup&gt;d&lt;/sup&gt; (n = 3,070)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Urban hospitals</strong></td>
<td>2,334</td>
<td>585</td>
<td>25.1</td>
</tr>
<tr>
<td>1-99 beds</td>
<td>575</td>
<td>107</td>
<td>18.6</td>
</tr>
<tr>
<td>100-199 beds</td>
<td>707</td>
<td>177</td>
<td>25</td>
</tr>
<tr>
<td>200-299 beds</td>
<td>417</td>
<td>106</td>
<td>25.4</td>
</tr>
<tr>
<td>300-399 beds</td>
<td>275</td>
<td>69</td>
<td>25.1</td>
</tr>
<tr>
<td>400-499 beds</td>
<td>138</td>
<td>42</td>
<td>30.4</td>
</tr>
<tr>
<td>500 or more beds</td>
<td>222</td>
<td>84</td>
<td>37.8</td>
</tr>
<tr>
<td><strong>Rural hospitals</strong></td>
<td>736</td>
<td>180</td>
<td><strong>24.5</strong></td>
</tr>
<tr>
<td>1-49 beds</td>
<td>312</td>
<td>84</td>
<td>26.9</td>
</tr>
<tr>
<td>50-99 beds</td>
<td>252</td>
<td>51</td>
<td>20.2</td>
</tr>
<tr>
<td>100-149 beds</td>
<td>94</td>
<td>23</td>
<td>24.5</td>
</tr>
<tr>
<td>150-199 beds</td>
<td>39</td>
<td>12</td>
<td>30.8</td>
</tr>
<tr>
<td>200 or more beds</td>
<td>39</td>
<td>10</td>
<td>25.6</td>
</tr>
<tr>
<td><strong>By Safety-Net Status</strong> &lt;sup&gt;e&lt;/sup&gt; (n = 3,070)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-safety net</td>
<td>2,452</td>
<td>550</td>
<td>22.4</td>
</tr>
<tr>
<td>Safety-net</td>
<td>618</td>
<td>215</td>
<td>34.8</td>
</tr>
<tr>
<td><strong>By DSH Percent</strong> &lt;sup&gt;f&lt;/sup&gt; (n = 3,070)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-24</td>
<td>1,280</td>
<td>263</td>
<td>20.5</td>
</tr>
<tr>
<td>25-49</td>
<td>1,437</td>
<td>379</td>
<td>26.4</td>
</tr>
<tr>
<td>50-64</td>
<td>194</td>
<td>63</td>
<td>32.5</td>
</tr>
<tr>
<td>65 and over</td>
<td>159</td>
<td>60</td>
<td>37.7</td>
</tr>
<tr>
<td><strong>By Teaching Status</strong> &lt;sup&gt;g&lt;/sup&gt; (n = 3,070)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-teaching</td>
<td>1,936</td>
<td>430</td>
<td>22.2</td>
</tr>
<tr>
<td>Fewer than 100 residents</td>
<td>876</td>
<td>211</td>
<td>24.1</td>
</tr>
</tbody>
</table>
6. Effects of the Proposed Changes to IME and Direct GME Payments

The Consolidated Appropriations Act (CAA) of 2020 contained 3 provisions affecting Medicare direct GME and IME payments to teaching hospitals. Section 126 of the CAA makes available 1,000 new Medicare-funded GME positions, with 200 slots to be distributed in 5 rounds over 5 years starting in FY 2023, with priority given to hospitals in 4 categories. Section 127 of the CAA makes changes relating to the determination of both an urban and rural hospital’s FTE resident limit for direct GME and IME payment purposes with regard to residents training in an accredited rural training track, and the application of the 3-year rolling average to the payment calculation of these hospitals. Section 131 of the CAA makes changes to the determination of direct GME PRAs and direct GME and IME FTE resident limits of hospitals that hosted a small number of residents for a short duration, based on new programs started on or after enactment (December 27, 2020) and 5 years after (December 26, 2025). We provide detailed proposals for implementing these 3 CAA provisions in section V.J.2. of this proposed rule. Following is a table showing the estimated cost of implementation of these 3 CAA provisions:

<table>
<thead>
<tr>
<th>By Ownership</th>
<th>100 or more residents</th>
<th>Voluntary</th>
<th>Proprietary</th>
<th>Government</th>
<th>258</th>
<th>124</th>
<th>48.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>By MCR Percent</td>
<td>0-24</td>
<td>583</td>
<td>158</td>
<td>27.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25-49</td>
<td>2,084</td>
<td>496</td>
<td>23.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50-64</td>
<td>356</td>
<td>99</td>
<td>27.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>65 and over</td>
<td>40</td>
<td>8</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>By Region</td>
<td>New England</td>
<td>130</td>
<td>46</td>
<td>35.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mid-Atlantic</td>
<td>342</td>
<td>99</td>
<td>28.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>South Atlantic</td>
<td>507</td>
<td>134</td>
<td>26.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>East North Central</td>
<td>482</td>
<td>114</td>
<td>23.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>East South Central</td>
<td>281</td>
<td>71</td>
<td>25.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>West North Central</td>
<td>244</td>
<td>61</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>West South Central</td>
<td>478</td>
<td>95</td>
<td>19.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mountain</td>
<td>229</td>
<td>56</td>
<td>24.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pacific</td>
<td>382</td>
<td>92</td>
<td>24.1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: FY 2022 HAC Reduction Program proposed rule results are based on CMS PSI 90 data from July 1, 2018 through December 31, 2019 and CDC CLABSI, CAUTI, SSI, CDI, and MRSA results from January 1, 2018 through December 31, 2019. Hospital Characteristics are based on the FY 2021 Proposed Rule Impact File.

This column is the number of non-Maryland hospitals with a Total HAC Score within the corresponding characteristic that are estimated to be in the worst-performing quartile.

This column is the percent of non-Maryland hospitals within each characteristic that are estimated to be in the worst-performing quartile. The percentages are calculated by dividing the number of non-Maryland hospitals with a Total HAC Score in the worst-performing quartile by the total number of non-Maryland hospitals with a Total HAC Score within that characteristic.

The number of non-Maryland hospitals with a FY 2022 Total HAC Score (N = 3,075). Note that not all hospitals have data for all hospital characteristics.

The number of hospitals that had information for geographic location with bed size, Safety-net status, DSH percent, and teaching status (n = 3,070).

A hospital is considered a Safety-net hospital if it is in the top quintile for DSH percent.

The DSH patient percentage is equal to the sum of: (1) the percentage of Medicare inpatient days attributable to patients eligible for both Medicare Part A and Supplemental Security Income; and (2) the percentage of total inpatient days attributable to patients eligible for Medicaid but not Medicare Part A.

A hospital is considered a teaching hospital if it has an IME adjustment factor for Operation PPS (TCHOP) greater than zero.

Not all hospitals had data for Ownership (n = 3,070).

Not all hospitals had data for MCR percent (n = 3,063).

All hospitals had data for Region (n = 3,075).
In section V.J.2.d. of the preamble of this proposed rule, we also are proposing that, effective for cost reporting periods beginning on or after October 1, 2021, a cost report is rejected for teaching hospitals for lack of supporting documentation if it does not include the IRIS data that contains the same total counts of direct GME FTE residents (unweighted and weighted) and of IME FTE residents as the total counts of direct GME FTE and IME FTE residents reported in the teaching hospital’s cost report. This proposal would continue to require all teaching hospitals to submit the IRIS data under §413.24(f)(5) to have an acceptable cost report submission. However, this proposal would require that this data must correspond to the same total counts of direct GME FTE residents (unweighted and weighted) and of IME FTE residents as the total counts of direct GME FTE and IME FTE residents reported in the teaching hospital’s cost report. Providers are required under §§413.20 and 413.24 to maintain data that substantiates their costs. IRIS is the source document for reporting FTEs in all teaching hospitals’ cost reports. To enhance the contractors’ ability to review duplicates and to ensure residents are not being double counted, we believe it is necessary and appropriate to require that the total unweighted and weighted FTE counts on the IRIS for direct GME and IME respectively, for all applicable allopathic, osteopathic, dental, and podiatric residents that a hospital may train, must equal the same total unweighted and weighted FTE counts for direct GME and IME reported on Worksheet E–4 and Worksheet E, Part A. Because all teaching hospitals are already required to submit the IRIS data under §413.24(f)(5) to have an acceptable cost report submission, there are no additional burdens or expenses placed upon teaching hospitals as a result of our proposal to require that the supporting documents submitted (the IRIS data) correspond to the amounts reported in the cost report in order to have an acceptable cost report submission.

7. Effects of Implementation of the Rural Community Hospital Demonstration Program in FY 2022

In section V.K. of the preamble of this proposed rule for FY 2022, we discussed our implementation and budget neutrality methodology for section 410A of Public Law 108–173, as amended by sections 3123 and 10318 of Public Law 111–148, by section 15003 of Public Law 114–255, and most recently, by section 128 of Public Law 116–260, which requires the Secretary to conduct a demonstration that would modify payments for inpatient services for up to 30 rural hospitals.

Section 128 of Public Law 116–255 requires the Secretary to conduct the Rural Community Hospital Demonstration for a 15-year extension period (that is, for an additional 5 years beyond the current extension period). In addition, the statute provides for continued participation for all hospitals participating in the demonstration program as of December 30, 2019. Therefore, we interpret the statute as providing for an additional 5-year period under the reasonable cost-based reimbursement methodology for the demonstration for the hospitals that were participating as of this date.

Section 410A(c)(2) of Public Law 108–173 requires that in conducting the demonstration program under this section, the Secretary shall ensure that the aggregate payments made by the Secretary do not exceed the amount which the Secretary would have paid if the demonstration program under this section was not implemented (budget neutrality). We propose to adopt the general methodology used in previous years, whereby we estimated the additional payments made by the program for each of the participating hospitals as a result of the demonstration, and then adjusted the national IPPS rates by an amount sufficient to account for the added costs of this demonstration. In other words, we have applied budget neutrality across the payment system as a whole rather than across the participants of this demonstration. The language of the statutory budget neutrality requirement permits the agency to implement the budget neutrality provision in this manner. The statutory language requires that aggregate payments made by the Secretary do not exceed the amount which the Secretary would have paid if the demonstration was not implemented, but does not identify the range across which aggregate payments must be held equal.

For this proposed rule, the resulting amount applicable to FY 2022 is $63,829,479, which we are proposing to include in the budget neutrality offset adjustment for FY 2022. This estimated amount is based on the specific assumptions regarding the data sources used, that is, recently available "as submitted" cost reports and historical and currently finalized update factors for cost and payment.

In previous years, we have incorporated a second component into the budget neutrality offset amounts identified in the final IPPS rules. As finalized cost reports became available, we determined the amount by which the actual costs of the demonstration for an earlier, given year differed from the estimated costs for the demonstration set forth in the final IPPS rule for the corresponding fiscal year, and we incorporated that amount into the budget neutrality offset amount for the upcoming fiscal year. We have calculated this difference for FYs 2005 through 2015 between the actual costs of the demonstration as determined from finalized cost reports once available, and estimated costs of the demonstration as identified in the applicable IPPS final rules for these years.

With the extension of the demonstration for another 5-year period, as authorized by section 128 of Public Law 116–260, we will continue this general procedure. All finalized cost reports are not yet all available for the 18 hospitals that completed a cost reporting period beginning in FY 2016 according to the demonstration cost-based payment methodology. We are expecting to include in the FY2022 IPPS/LTCH PPS final rule the difference between the actual costs of the demonstration as determined from these cost reports and the estimated costs as determined in the FY 2016 final rule.

<table>
<thead>
<tr>
<th>FY</th>
<th>Section 126</th>
<th>Section 127</th>
<th>Section 131</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>2022</td>
<td>0</td>
<td>0</td>
<td>30</td>
</tr>
<tr>
<td>2023</td>
<td>10</td>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>2024</td>
<td>60</td>
<td>10</td>
<td>90</td>
</tr>
<tr>
<td>2025</td>
<td>120</td>
<td>10</td>
<td>130</td>
</tr>
<tr>
<td>2026</td>
<td>180</td>
<td>10</td>
<td>150</td>
</tr>
<tr>
<td>2027</td>
<td>240</td>
<td>20</td>
<td>170</td>
</tr>
<tr>
<td>2028</td>
<td>290</td>
<td>20</td>
<td>180</td>
</tr>
<tr>
<td>2029</td>
<td>300</td>
<td>20</td>
<td>180</td>
</tr>
<tr>
<td>2030</td>
<td>310</td>
<td>20</td>
<td>190</td>
</tr>
<tr>
<td>2031</td>
<td>320</td>
<td>20</td>
<td>190</td>
</tr>
</tbody>
</table>

**Cost Impact of CAA 2021 GME Provisions (in Smillions)**
For this proposed rule for FY 2022, the total amount that we are applying to the national IPPS rates is $63,829,479.

8. Effects of the Proposed Repeal of the Market-Based MS–DRG Relative Policy

In section V.L. of the preamble of this proposed rule, we are proposing to repeal the requirement that a hospital report on the Medicare cost report the median payer–specific negotiated charge that the hospital has negotiated with each of its MA organization payers, by MS–DRG, for cost reporting periods ending on or after January 1, 2021, as finalized in the FY 2021 IPPS/LTCH PPS final rule. We are also proposing to repeal the market-based MS–DRG relative weight methodology that was adopted effective for FY 2024, as finalized in the FY 2021 IPPS/LTCH PPS final rule. In the FY 2021 IPPS/LTCH PPS final rule, we estimated the total annual burden hours for this data collection requirement as follows: 20 hours per hospital times 3,189 total hospitals equals 63,780 annual burden hours and $4,315,993 annually for all hospitals nationally. We refer readers to 85 FR 59015 for further analysis of this assessment.

The market-based MS–DRG relative weight methodology, as finalized in the FY 2021 IPPS/LTCH PPS final rule, is effective beginning with the relative weights calculated for FY 2024. If we were to finalize our proposal to repeal the market-based MS–DRG relative weight methodology effective in FY 2024, we would continue calculating the MS–DRG relative weights using the current cost-based MS–DRG relative weight methodology for FY 2024 and subsequent fiscal years. If finalized, this proposed repeal of the market-based data collection and market-based relative weight methodology would not result in a payment impact to hospitals and would instead decrease burden for hospitals required to comply with the market-based MS–DRG relative weight data collection requirement.

9. Effects of Continued Implementation of the Frontier Community Health Integration Project (FCHIP) Demonstration

In section VII.B.2. of the preamble of this proposed rule we discuss the implementation of the FCHIP demonstration, which allows eligible entities to develop and test new models for the delivery of health care services in eligible counties in order to improve access to and better integrate the delivery of acute care, extended care, and other health care services to Medicare beneficiaries in no more than four States. Budget neutrality estimates for the demonstration described in the preamble of this rule are based on the time period from August 1, 2016, to July 31, 2019 (referred to in this section as the "initial period" of the demonstration). Section 123(g)(1)(B) of the Act permits the agency to delay the implementation of any budget neutrality adjustment and stated that we would revisit this policy in rulemaking for FY 2022, when we expected to have complete data for the demonstration period. Based on the data and analyses described previously, we have concluded the initial period of the FCHIP demonstration (covering the time period August 1, 2016, to July 31, 2019) has satisfied the budget neutrality requirement described in section 123(g)(1)(B) of Public Law 110–275. Therefore, we are not proposing to apply a budget neutrality payment offset to payments to CAHs in FY 2022. This policy will have no impact for any national payment system for FY 2022.

10. Effects of the Proposed Policy Regarding Medicaid Enrollment of Medicare Providers and Suppliers for Purposes of Processing Claims for Cost Sharing for Services Furnished to Dually Eligible Beneficiaries

In section X.A. of the preamble of this proposed rule, we discuss our proposals regarding Medicare enrollment of Medicare providers and suppliers for purposes of processing claims for cost sharing for services furnished to dually eligible beneficiaries.

Under section 1902(a)(10)(E) of the Act, states are liable for Medicare cost-sharing amounts for certain beneficiaries dually eligible for Medicare and Medicaid, including those in the Qualified Medicare Beneficiary (QMB) and the渔业 Medicare Beneficiary (YMB) programs. Per section 1905(p)(3) of the Act, this cost-sharing liability includes costs incurred with respect to a QMB regardless of whether the costs incurred were for items and services covered under the Medicaid State plan.

All states require providers to enroll in Medicaid in order to process a Medicaid claim, including one for Medicare cost-sharing. However, some Medicare providers and suppliers have experienced difficulty enrolling in a state's Medicaid program and submitting claims for payment of Medicare cost-sharing. Because some states at times have not met their obligation at section 1905(p)(3) of the Act to determine Medicare cost-sharing liability, we are proposing to modify section 123(g)(1)(B) of the Act to delay the implementation of any budget neutrality adjustment and stated that we would revisit this policy in rulemaking for FY 2022, when we expected to have complete data for the demonstration period. Based on the data and analyses described previously, we have concluded the initial period of the FCHIP demonstration (covering the time period August 1, 2016, to July 31, 2019) has satisfied the budget neutrality requirement described in section 123(g)(1)(B) of Public Law 110–275. Therefore, we are not proposing to apply a budget neutrality payment offset to payments to CAHs in FY 2022. This policy will have no impact for any national payment system for FY 2022.

Because some states at times have not met their obligation at section 1905(p)(3) of the Act to determine Medicare cost-sharing liability, we are proposing to modify section 123(g)(1)(B) of the Act to delay the implementation of any budget neutrality adjustment and stated that we would revisit this policy in rulemaking for FY 2022, when we expected to have complete data for the demonstration period. Based on the data and analyses described previously, we have concluded the initial period of the FCHIP demonstration (covering the time period August 1, 2016, to July 31, 2019) has satisfied the budget neutrality requirement described in section 123(g)(1)(B) of Public Law 110–275. Therefore, we are not proposing to apply a budget neutrality payment offset to payments to CAHs in FY 2022. This policy will have no impact for any national payment system for FY 2022.

Because some states at times have not met their obligation at section 1905(p)(3) of the Act to determine Medicare cost-sharing liability, we are proposing to modify section 123(g)(1)(B) of the Act to delay the implementation of any budget neutrality adjustment and stated that we would revisit this policy in rulemaking for FY 2022, when we expected to have complete data for the demonstration period. Based on the data and analyses described previously, we have concluded the initial period of the FCHIP demonstration (covering the time period August 1, 2016, to July 31, 2019) has satisfied the budget neutrality requirement described in section 123(g)(1)(B) of Public Law 110–275. Therefore, we are not proposing to apply a budget neutrality payment offset to payments to CAHs in FY 2022. This policy will have no impact for any national payment system for FY 2022.
(even if a provider or supplier is of a type that the State would not otherwise enroll in the State Medicaid program), if the provider otherwise meets all other Federal Medicaid enrollment requirements, including, but not limited to, all applicable provisions of 42 CFR part 430, subpart B and E.

There are three areas where this provision would have impact; listed here and discussed in further detail later in this section.

• Updating State Medicaid systems with other provider types and cost-sharing logic.

• New providers or suppliers enrolling in State Medicaid systems.

• Reducing Medicare bad debt appeals.

We are unable to estimate the change in Medicaid program costs or on Medicare bad debt payments in this analysis because states have flexibility to choose their cost-sharing payment methodology for different provider types in their Medicaid State plan, and we do not have a clear basis for assumptions about their future choices. States can choose to pay Medicare cost-sharing at the Medicare rate, which means the State pays the amount that Medicare establishes as the cost-sharing amount. States can also choose to pay Medicare cost-sharing using the Medicaid State plan rate, which means the State takes into consideration the amount that Medicare paid with respect to the amount (if any) that the State will pay to bring the provider’s total payment up to the Medicaid State plan rate. Usually, the Medicaid State plan rate is lower than the Medicare rate (Medicare paid amount), resulting in no additional Medicaid cost-sharing for the provider from the State. However, if the State plan rate is higher than the Medicare rate (Medicare paid amount), the State would then pay the difference between the Medicare paid amount and the State plan rate. States can also choose to apply a lesser-of policy, in which states pay the lesser of the cost-sharing based on the Medicare rate or the State plan rate. Lastly, states can pay at a negotiated rate.

Historically, most states elect a lesser-of policy for State payment of cost-sharing for hospital claims, meaning that they pay very little, if any, Medicare cost-sharing. For example, 43 states used the lesser-of policy for cost-sharing for Medicare inpatient hospital claims in 2018. Given this, and that the states that would be impacted by this proposal are those that have not enrolled certain Medicare provider types, it seems plausible that these states would choose to elect lesser-of payment policies for these newly enrolled provider types, generally limiting new cost-sharing liability to zero. However, because states have the flexibility to set their cost-sharing methodology for newly enrolled provider types, we have not estimated costs based on those future elections. However, by properly processing claims for Medicare cost-sharing it ensures Medicare is not inappropriately paying bad debt on any cost-sharing liability the State should have paid through its State plan elections.

a. Updating State Medicaid Systems With Other Provider Types and Cost-Sharing Logic

To estimate the costs of this proposal, we note that Medicare LTCHs are an example of a Medicare-enrolled provider that is most notably not an explicit provider type in Medicaid. Therefore, we assume that 26 states will need to make systems changes to implement the proposal if finalized since this is the number of states named in the Select Specialty Hospital—Denver, et al. v. Azar case in which 77 LTCHs from 26 states appealed the denial of claims for Medicare bad debt because the LTCHs were unable to furnish a Medicaid remittance advice. While there may be other states or territories that do not enroll other provider types, such as Comprehensive Outpatient Rehabilitation Facilities (CORFs), we have less information on this circumstance and, for the purposes of this analysis, we include the LTCH litigation are the same states that may not be enrolling these other provider types. As such, we have estimated a one-time burden for 26 State and territory Medicaid programs to comply with the provider enrollment requirement as proposed. We estimate this would take a maximum of 6 months of work (approximately 960 hours) by a computer programmer working at a Bureau of Labor Statistics (BLS) mean hourly rate of $44.53 per hour to make the necessary systems changes. Since we estimate that 26 states and territories will make these systems changes, we project an aggregate burden of $1,111,469 (26 states * 960 hours of programming work * $44.53/hour) and a cost per State of approximately $42,749 (960 * $44.53 = $42,749). The cost and time attributable to this systems change will be influenced by whether the State is implementing other enrollment systems changes at the same time. Assuming the State implements this change in isolation, we estimate that this change could take 6 months. However, if a State makes this change as a part of a broader enrollment systems update, the work specific to proposal could be minimal. We note that states are likely subject to Federal medical assistance percentage (FMAP) for the State Medicaid Management Information System (MMIS) as set forth in 1903(a)(3)(A) of the Act.

We estimate a 6-month implementation period for these system updates. In this proposed rule, we assume there will be 17 months between when we expect to publish a final rule in August 2021, and the January 1, 2023 applicability date. The purpose of the 17-month window is to give organizations flexibility to find a 6-month period to perform updates as indicated in section X.A. of the preamble for this rule. States would have the ability to choose, in consultation with CMS, when in the 17-month implementation period they want to make this change. For the purposes of this impact analysis, we estimated a uniform distribution beginning in August 2021 and ending in January 2023. As noted previously, the total cost impact over 17 months is $1,111,469, when apportioned uniformly over the 17 months, the resulting impacts are $332,326 and $789,143 for 2021 and 2022 respectively corresponding to 5 months and 12 months in 2021 and 2022, respectively. We solicit comment on Medicaid costs of systems updates related to this proposal.

b. New Providers and Suppliers Enrolling in State Medicaid Systems

Currently, there are 363 LTCHs across the United States, and our understanding is that at least half are in a Core Based Statistical Area (CBSA) in which the states currently enroll LTCHs. If half of LTCHs are able to newly enroll with their State Medicaid program, we estimate enrollment will take an average of three to six hours for an LTCH office manager, at a BLS mean hourly rate of $28.91 per hour, to complete so would cost between $86.73 and $173.46 for each LTCH (3 to 6 hours * $28.91/hr). Therefore, we estimate this will cost LTCHs between $15,611 and $31,223 ($86.73 to $173.46 * 180 LTCHs) in aggregate. We assume that, on average, it will take states a similar amount of time to review and process these enrollment applications, though we know that some applications can be adjudicated quickly through automated processes, and others will need manual review. We estimate states will need to process enrollment applications for 180 LTCHs, across 26 states, for a total costs of between $15,611 and $31,223, or $600 to $1,200 per State ($15,611 to $31,223/26 states). While this proposal may also impact other provider and supplier types, such as CORFs, we are uncertain how many of these provider types will be able to newly enroll in Medicaid as a result of this proposal. We solicit comment on the enrollment application and processing impacts related to this proposal.

c. Reducing Medicare Bad Debt Appeals

This proposed rule will not affect existing bad debt appeals. However, we believe the proposed rule may reduce the number of future bad debt appeals by ensuring certain Medicare-enrolled providers, such as LTCHs, can enroll with State Medicaid programs, receive Medicaid Remittance Advice (RA), and claim Medicare bad debt. In eliminating these appeals, the proposal would eliminate the cost for providers to pursue such appeals and subsequent litigation, as well as the costs for CMS to defend them. Therefore, we estimate provider and Medicare cost savings from avoiding future Medicare bad debt appeals. As noted previously, we are unable to estimate a reduction in Medicare bad debt payments that would result from an increase in State payment of Medicare LTCH cost-sharing because states have flexibility to choose their cost-sharing payment methodology for different provider types in their State plan, and we do not have a clear basis for assumptions about their future choices.

While we cannot predict the outcome of future appeals and litigation, the February 2021 resolution of the Select Specialty Hospital—Denver, et al. v. Azar case, which included claims from 77 LTCHs in 26 states from 2005 to 2010, helps us better understand the potential appeal-related costs avoided if we finalize this proposal. Medicare Hospital Insurance Trust Fund Payments. After an adverse decision for CMS, the Federal government ultimately paid the plaintiffs a total of $23,649,492, which included the principle amount of $18,856,588 for the payment of bad debt claims that had been denied, plus associated
of the principle amount to be paid, it was difficult for CMS to retroactively determine State liability for cost-sharing, if any, in order to deduct that amount from the amount claimed as bad debt. If finalized, this proposal would help ensure that the amount paid for bad debt accurately reflects State liability. Additionally, by reducing the need for bad debt appeals and litigation, it would also eliminate costs associated with interest, should future cases be decided similarly to Select Specialty Hospital—Denver, et al. v. Azar.

Ligitation costs. In the Specialty Hospital—Denver, et al. v. Azar case, the plaintiffs sought $1,174,000 in total costs of attorney’s fees and costs incurred to litigate denied Medicare bad debt claims dating from 2005 to 2010 through the Medicare Provider Reimbursement Review Board (PRRB) and in Federal District Court. The court denied this request, so these costs were borne by the LTCHs.

The Federal government also bears significant costs to process and defend these appeals and subsequent litigation: The MAC and the Federal Specialized Service prepare the documentation to present at the PRRB; the PRRB prepares the case for the hearing and prepares and issue a decision; the CMS Attorney Advisor disseminates the PRRB decision to the appropriate parties, such as the Federal Specialized Service and CMS payment policy staff, for input on the PRRB decision and then issues a final Administrator’s decision on the case; the Office of Counsel prepares and files the appropriate documentation to hear the court case which may also involve components of the U.S. Department of Justice; and the Office of General Council defends the case, and if necessary, works with CMS to determine an appropriate settlement that the MAC then implements. Currently, there are at least 20 open cases before CMS for the same issue ruled on in the Select Specialty Hospital—Denver case, claims with dates of service from 2007 to 2020. We estimate the provider had debt reimbursement in controversy across these 20 open cases to be $17,248,242. Of these 20 open cases, nine cases are under remand from the Federal District Court with a calculated potential interest amount of $2,740,004.

If this proposal is not finalized, it is likely that appeals on this issue, and their associated costs for Medicare providers and for the Federal government described previously, would continue into the future. We solicit comment on the cost and savings related to appeals resulting from this proposed policy.

In sum, we note that the estimated costs saved by providers, CMS, and other Federal agencies in avoiding ongoing Medicare bad debt appeals likely offset the maximum $31,223 aggregate spending for providers and suppliers to enroll with State Medicaid programs, and the maximum $31,223 for states to process those applications, as well as the $1,111,469 in aggregate spending for states to update the State Medicaid systems, which will likely be eligible for 90/10 FMAP, as described previously.

11. Effects of the Proposed Organ Acquisition Payment Policy

In section X.B.2. of the preamble of this proposed rule, we are proposing to codify into the Medicare regulations some longstanding Medicare organ acquisition payment policies, with clarifications where necessary, and proposing to codify some new organ acquisition payment policies. Specifically, in section X.B.2.h. of the preamble of this proposed rule, we are proposing to revise and codify the Medicare organ counting policy to more accurately record and pay Medicare’s share of organ acquisition costs. Additionally in section X.B.2.i. of the preamble of this proposed rule, we are proposing to revise and codify the policy for donor community hospital (Medicare-certified non-transplant hospitals) charges for services provided to organ procurement organizations. In section X.B.2.m. of the preamble of this proposed rule, we are also proposing to make technical corrections, clarifications, conforming changes, and to revise the regulations. Finally, in section X.B.3. of the preamble of this proposed rule, we are soliciting comments on the existing cap on surgeon fees for cadaveric kidney excisions.

As a result of our proposal to codify certain longstanding organ acquisition payment policies into the regulations, there would be no additional costs to the Medicare program and no increased burden placed upon transplant hospitals, OPOs or other stakeholders. Likewise, there would be no costs or savings program from the technical corrections, clarifications, conforming changes, or redesignations of some regulations. There would also be no costs or savings to the Medicare program from the comment solicitation related to surgeon fees.

As a result of our proposal to revise and codify the Medicare usable organ counting policy to count only organs transplanted into Medicare beneficiaries so that Medicare more accurately recovers its share of organ acquisition costs, we estimate an annual cost savings to the Medicare trust fund of $230 million in FY 2022, $1.74 billion over 5 years, and $4.15 billion over 10 years. OACT estimated this as $320 million savings in FY 2022 (based on IPPS cost data). These savings estimates also include effects associated with the impacts to Medicare Advantage plans. These effects which are unrelated to our proposal, include the changes resulting from the 21st Century Cures Act, which requires that kidney acquisition costs for Medicare Advantage beneficiaries be paid under Fee-for-service Medicare beginning January 1, 2021, rather than under Medicare Advantage (section 17006 of Pub. L. 114–255).

As a result of our proposal to revise and codify the policy for donor community hospital charges for services provided to organ procurement organizations, we are currently unable to estimate a cost savings. Based on the Scientific Registry of Transplant Recipient data, we recognize that organs recovered from donor community hospitals comprised 62 percent of all transplanted organs in 2017 and 2018. Under the current policy donor community hospitals bill customary charges or negotiated rates and not charges reduced to cost. Because our proposal requires donor community hospitals to reduce charges to cost, we anticipate a cost savings to the Medicare trust fund.

12. Effects of the Proposed Policy Changes to the Medicare Shared Savings Program

In section X.C. of the preamble of this proposed rule, we describe our proposed changes to the Medicare Shared Savings Program (Shared Savings Program) established under section 1899 of the Act. The proposed changes are estimated to reduce program spending relative to a status quo baseline by extending the flexibility for certain ACOs to elect to “freeze” their participation level along the BASIC track’s glide path for PY 2022. Such special flexibility—having proven popular among ACOs that chose to “freeze” their level of participation for FY 2020 in light of the uncertainties caused by the COVID–19 PHE, is expected to again help retain ACO participation in the program, particularly among ACOs leery of taking on downside risk, or increasing levels of downside risk, in the midst of pandemic-induced uncertainty. In modeling the impacts of the proposed changes, we used ACO performance data from the 6-month performance year from July 1, 2019, through December 31, 2019, based on CY 2019, along with preliminary data from performance year 2020 to identify ACOs that would be likely to opt for this flexibility and to estimate the potential impact on program spending. We also considered the benchmark and performance information ACOs would have available when making participation decisions for PY 2022 in the context of participation decisions made by ACOs in similar positions entering PY 2021.

We estimate that the proposed flexibility would prevent between 20 to 30 ACOs that would otherwise be required to transition to performance-based risk, from dropping out of the Shared Savings Program. Additionally, we estimate that between 60 to 80 ACOs that would otherwise attempt the transition to performance-based risk would, out of caution, opt to stay in a one-sided model in PY 2022 (‘Basic track’ Level A or B) despite the opportunity to graduate to a higher level of potential reward (under BASIC track Levels A and B, ACOs share at most 40 percent of savings, whereas BASIC track Levels C, D, and E allow for greater upside potential with a maximum sharing rate of 50 percent). The net effect of offering this flexibility is estimated to be a $90 million reduction in Federal spending, with the reduction ranging from $50 to $140 million. The estimated impact is roughly evenly split between net savings generated by ACOs that would have otherwise terminated their participation in the program absent the flexibility and reduced shared savings payouts to ACOs that would elect to participate in the program at the lower shared savings level A or B of the BASIC track despite the fact they would have ultimately earned—as a group—more shared savings had they transitioned to a risk arrangement in Level C, D, or E of the BASIC track. Although we estimate the impact of this proposal over the single performance year for which it would

1529 Scientific Registry of Transplant Recipients. Request for Information. Requested on 02/08/2021.
expand certain ACOs’ participation options, it is possible there could be secondary impacts over a longer time period. However, we do not believe the longer run potential effects are readily quantifiable on net. On one hand, the policy could allow certain ACOs to delay necessary care delivery changes if they expect CMS to likely continue to offer risk-free participation in the program in future rulemaking, as would have been the case for two successive rules (the May 6, 2020 COVID–19 Interim Final Rule with Comment Period and this FY 2022 Medicare Hospital Inpatient Prospective Payment System proposed rule). On the other hand, the proposal could give other ACOs additional time to grow in confidence in their ability to manage the transition to risk, while at the same time finding stability in their operations after the disruption from the COVID–19 PHE. ACOs in the latter category may then find longer-term success (including driving lower net spending for the program) that might have otherwise been curtailed had the ACOs made the decision whether or not to transition to performance-based risk for FY 2022. These two scenarios illustrate potential countervailing longer run impacts from the proposal, and while we do not attempt to estimate a net impact across the mix of such possible scenarios for ACOs impacted by this proposal, we assert that the proposal increases the chance that the program could sustain a larger mix of participants and this outcome outweighs the risk that certain ACOs might be marginally shown to make efficiency-related changes in care delivery.

I. Effects of Proposed Changes in the Capital IPPS

1. General Considerations

As discussed, in section III.A of the Addendum to this proposed rule, we are proposing to use claims from the March 2020 update of the FY 2019 MedPAR file and provider data from the March 2020 update of the Provider Specific File (PSF) for purposes of determining the proposed capital Federal rate for FY 2022. Consistent with these proposals, for the impact analysis presented in this section, we used data from the March 2020 update of the FY 2019 MedPAR file and the March 2020 update of the PSF that was used for payment purposes. Although the analysis of the proposed changes to the capital prospective payment system do not incorporate cost data, we used the March 2020 update of the hospital cost report data (FYs 2017 and 2018) to categorize hospitals. Our analysis has several qualifications and uses the best data available, as described later in this section.

Due to the interdependent nature of the IPPS, it is very difficult to precisely quantify the impact associated with each change. In addition, we draw upon various sources for the data used to categorize hospitals in the tables above, some based (for instance, the number of beds), there is a fair degree of variation in the data from different sources. We have attempted to construct these variables with the best available sources overall. However, it is possible that some individual hospitals are placed in the wrong category.

Using cases from the March 2020 update of the FY 2019 MedPAR file, we simulated payments under the capital IPPS for FY 2021 and the proposed payments for FY 2022 for a comparison of total payments per case. Short-term, acute care hospitals not paid under general IPPS (for example, hospitals in Maryland) are excluded from the simulations.

The methodology for determining a capital IPPS payment is set forth at § 412.312. The basic methodology for calculating the proposed capital IPPS payments in FY 2022 is as follows:

\[ \text{Standard Federal rate} \times (\text{DRG weight}) \times (\text{GAF}) \times (\text{COLA for hospitals located in Alaska and Hawaii}) \times (1 + \text{DSH adjustment factor} + \text{IMF adjustment factor, if applicable}) \]

In addition to the other adjustments, hospitals may receive outlier payments for those cases that qualify under the threshold established for each fiscal year. We modeled payments for each hospital by multiplying the capital Federal rate by the GAF and the hospital’s case-mix. Then we added estimated payments for indirect medical education, disproportionate share, and outliers, if applicable. For purposes of this impact analysis, the model includes the following assumptions:

- The capital Federal rate was updated, beginning in FY 1996, by an analytical framework that considers changes in the prices associated with capital-related costs and adjustments to account for forecast error, changes in the case-mix index, allowable changes in intensity, and other factors. As discussed in section I.F. of the Addendum to this proposed rule, the proposed update to the capital Federal rate is 0.70 percent for FY 2022.
- In addition to the proposed FY 2022 update factor, the proposed FY 2022 capital Federal rate was calculated based on a proposed GAF/DIM adjustment factor of 0.9976, a proposed budget neutrality adjustment factor for the proposed lowest quartile hospital wage index adjustment of 0.9976, and a proposed outlier adjustment factor of 0.9467.

2. Results

We used the payment simulation model previously described in section I.I. of Appendix A of this proposed rule to estimate the potential impact for the proposed changes for FY 2022 on total capital payments per case, using a universe of 3,198 hospitals. As previously described, the individual hospital payment parameters are taken from the best available data, including the March 2020 update of the FY 2019 MedPAR file, the March 2020 update to the PSF, and the cost report data for FYs 2017 and 2018 from the March 2020 update of HCRIIS. In Table III, we present a comparison of estimated total payments per case for FY 2021 and estimated proposed total payments per case for FY 2022 based on the proposed FY 2022 payment policies. Column 2 shows estimates of payments per case under our model for FY 2021. Column 3 shows estimates of proposed payments per case under our model for FY 2022. Column 4 shows the proposed total percentage change in payments from FY 2021 to FY 2022. The change represented in Column 4 includes the proposed 0.70 percent update to the capital Federal rate and other proposed changes in the adjustments to the capital Federal rate. The comparisons are provided by: (1) Geographic location; (2) region, and (3) proposed (and proposed policies affecting the wage index). As shown in Table I in section I.G. of this Appendix A.

The geographic comparison shows that, on average, hospitals in both urban and rural classifications would experience an increase in the change in the capital IPPS payments per case in FY 2022 as compared to capital payments per case in FY 2021 are primarily due to the proposed changes in GAFs, and are generally consistent with the projected changes in payments due to proposed changes in the case-mix index (and proposed policies affecting the wage index), as shown in Table I in section I.G. of this Appendix A.

The net impact of these proposed changes is an estimated 0.5 percent increase in capital payments per case from FY 2021 to FY 2022 for all hospitals (as shown in Table III).

The geographic comparison shows that, on average, hospitals in both urban and rural classifications would experience an increase in the change in the capital IPPS payments per case in FY 2022 as compared to capital payments per case in FY 2021 are primarily due to the proposed changes in GAFs, and are generally consistent with the projected changes in payments due to proposed changes in the case-mix index (and proposed policies affecting the wage index), as shown in Table I in section I.G. of this Appendix A.

The geographic comparison shows that, on average, hospitals in both urban and rural classifications would experience an increase in the change in the capital IPPS payments per case in FY 2022 as compared to capital payments per case in FY 2021 are primarily due to the proposed changes in GAFs, and are generally consistent with the projected changes in payments due to proposed changes in the case-mix index (and proposed policies affecting the wage index), as shown in Table I in section I.G. of this Appendix A.

The geographic comparison shows that, on average, hospitals in both urban and rural classifications would experience an increase in the change in the capital IPPS payments per case in FY 2022 as compared to capital payments per case in FY 2021 are primarily due to the proposed changes in GAFs, and are generally consistent with the projected changes in payments due to proposed changes in the case-mix index (and proposed policies affecting the wage index), as shown in Table I in section I.G. of this Appendix A.

The geographic comparison shows that, on average, hospitals in both urban and rural classifications would experience an increase in the change in the capital IPPS payments per case in FY 2022 as compared to capital payments per case in FY 2021 are primarily due to the proposed changes in GAFs, and are generally consistent with the projected changes in payments due to proposed changes in the case-mix index (and proposed policies affecting the wage index), as shown in Table I in section I.G. of this Appendix A.
All Hospital types of ownerships (Voluntary, Proprietary, and Government) are expected to experience an increase in capital payments per case from FY 2021 to FY 2022. Voluntary hospitals are expected to experience an increase in capital IPPS payments of 0.6 percent, and the projected increase in capital payments for proprietary and government hospitals is estimated to be 0.7 percent and 0.6 percent respectively.

Section 1886(d)(10) of the Act established the MGCRB. Hospitals may apply for reclassification for purposes of the wage index for FY 2022. Reclassification for wage index purposes also affects the GAFs because that factor is constructed from the hospital wage index. To present the effects of the hospitals being reclassified as of the publication of this proposed rule for FY 2022, we show the proposed average capital payments per case for reclassified hospitals for FY 2022. Urban reclassified hospitals are expected to experience an increase in capital payments of 0.1 percent; urban nonreclassified hospitals are expected to experience an increase in capital payments of 1.0 percent. The lower expected increase in payments for urban reclassified hospitals compared to urban nonreclassified hospitals is primarily due to estimated decreases in capital DSH payments to urban reclassified hospitals caused by the increase in the number of hospitals that reclassify from urban to rural under § 412.103. The estimated percentage increase for rural reclassified hospitals is 1.2 percent, and for rural nonreclassified hospitals, the estimated percentage increase in capital payments is 0.8 percent.
TABLE III.—COMPARISON OF TOTAL PAYMENTS PER CASE
[FY 2021 PAYMENTS COMPARED TO PROPOSED FY 2022 PAYMENTS]

<table>
<thead>
<tr>
<th>By Category</th>
<th>Number of hospitals</th>
<th>Average FY 2021 payments/case</th>
<th>Proposed Average FY 2022 payments/case</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>All hospitals</td>
<td>3,198</td>
<td>979</td>
<td>984</td>
<td>0.5</td>
</tr>
<tr>
<td>By Geographic Location:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban Hospitals</td>
<td>2,459</td>
<td>1,012</td>
<td>1,017</td>
<td>0.5</td>
</tr>
<tr>
<td>Rural areas</td>
<td>739</td>
<td>671</td>
<td>678</td>
<td>1.0</td>
</tr>
<tr>
<td>Bed Size (Urban)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-99 beds</td>
<td>633</td>
<td>814</td>
<td>822</td>
<td>1.0</td>
</tr>
<tr>
<td>100-199 beds</td>
<td>755</td>
<td>858</td>
<td>865</td>
<td>0.8</td>
</tr>
<tr>
<td>200-299 beds</td>
<td>427</td>
<td>935</td>
<td>941</td>
<td>0.6</td>
</tr>
<tr>
<td>300-499 beds</td>
<td>421</td>
<td>1,014</td>
<td>1,019</td>
<td>0.5</td>
</tr>
<tr>
<td>500 or more beds</td>
<td>223</td>
<td>1,215</td>
<td>1,219</td>
<td>0.3</td>
</tr>
<tr>
<td>Bed Size (Rural)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-49 beds</td>
<td>313</td>
<td>570</td>
<td>574</td>
<td>0.7</td>
</tr>
<tr>
<td>50-99 beds</td>
<td>254</td>
<td>625</td>
<td>630</td>
<td>0.8</td>
</tr>
<tr>
<td>100-149 beds</td>
<td>94</td>
<td>664</td>
<td>670</td>
<td>0.9</td>
</tr>
<tr>
<td>150-199 beds</td>
<td>39</td>
<td>731</td>
<td>739</td>
<td>1.1</td>
</tr>
<tr>
<td>200 or more beds</td>
<td>39</td>
<td>793</td>
<td>805</td>
<td>1.5</td>
</tr>
<tr>
<td>By Region:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban by Region</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>112</td>
<td>1,101</td>
<td>1,092</td>
<td>-0.8</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>304</td>
<td>1,121</td>
<td>1,116</td>
<td>-0.4</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>402</td>
<td>886</td>
<td>895</td>
<td>1.0</td>
</tr>
<tr>
<td>East North Central</td>
<td>381</td>
<td>962</td>
<td>970</td>
<td>0.8</td>
</tr>
<tr>
<td>East South Central</td>
<td>144</td>
<td>862</td>
<td>867</td>
<td>0.6</td>
</tr>
<tr>
<td>West North Central</td>
<td>160</td>
<td>992</td>
<td>1,003</td>
<td>1.1</td>
</tr>
<tr>
<td>West South Central</td>
<td>364</td>
<td>929</td>
<td>931</td>
<td>0.2</td>
</tr>
<tr>
<td>Mountain</td>
<td>172</td>
<td>1,024</td>
<td>1,028</td>
<td>0.4</td>
</tr>
<tr>
<td>Pacific</td>
<td>370</td>
<td>1,301</td>
<td>1,316</td>
<td>1.2</td>
</tr>
<tr>
<td>Rural by Region</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>19</td>
<td>935</td>
<td>949</td>
<td>1.5</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>50</td>
<td>647</td>
<td>654</td>
<td>1.1</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>114</td>
<td>620</td>
<td>632</td>
<td>1.9</td>
</tr>
<tr>
<td>East North Central</td>
<td>114</td>
<td>677</td>
<td>684</td>
<td>1.0</td>
</tr>
<tr>
<td>East South Central</td>
<td>144</td>
<td>630</td>
<td>635</td>
<td>0.8</td>
</tr>
<tr>
<td>West North Central</td>
<td>89</td>
<td>698</td>
<td>702</td>
<td>0.6</td>
</tr>
<tr>
<td>West South Central</td>
<td>136</td>
<td>599</td>
<td>605</td>
<td>1.0</td>
</tr>
<tr>
<td>Mountain</td>
<td>49</td>
<td>762</td>
<td>767</td>
<td>0.7</td>
</tr>
<tr>
<td>Pacific</td>
<td>24</td>
<td>864</td>
<td>871</td>
<td>0.8</td>
</tr>
</tbody>
</table>
| TABLE III.—COMPARISON OF TOTAL PAYMENTS PER CASE  
| [FY 2021 PAYMENTS COMPARED TO PROPOSED FY 2022 PAYMENTS] |
| --- | --- | --- | --- |
| | Number of | Average FY 2021 payments/ | Proposed Average FY 2022 payments/ | Change |
| | hospitals | case | case |
| **By Payment Classification:** | | | |
| Urban hospitals | 1,965 | 989 | 998 | 0.9 |
| Rural areas | 1,233 | 963 | 964 | 0.1 |
| **Teaching Status:** | | | | |
| Non-teaching | 2,034 | 820 | 828 | 1.0 |
| Fewer than 100 Residents | 907 | 933 | 938 | 0.5 |
| 100 or more Residents | 257 | 1,356 | 1,359 | 0.2 |
| **Urban DSH:** | | | | |
| Non-DSH | 505 | 902 | 909 | 0.8 |
| 100 or more beds | 1,210 | 1,017 | 1,026 | 0.9 |
| Less than 100 beds | 350 | 738 | 745 | 0.9 |
| **Rural DSH:** | | | | |
| Sole Community (SCH/EACH) | 260 | 687 | 693 | 0.9 |
| Referral Center (RRC/EACH) | 622 | 1,007 | 1,008 | 0.1 |
| 100 or more beds | 34 | 1,027 | 1,003 | -2.3 |
| Less than 100 beds | 217 | 559 | 565 | 1.1 |
| **Urban teaching and DSH:** | | | | |
| Both teaching and DSH | 674 | 1,083 | 1,092 | 0.8 |
| Teaching and no DSH | 74 | 949 | 953 | 0.4 |
| No teaching and DSH | 886 | 874 | 883 | 1.0 |
| No teaching and no DSH | 331 | 874 | 882 | 0.9 |
| **Special Hospital Types:** | | | | |
| Non special status hospitals | 162 | 872 | 863 | -1.0 |
| RRC/EACH | 555 | 1,042 | 1,043 | 0.1 |
| SCH/EACH | 304 | 756 | 762 | 0.8 |
| Medicare-dependent hospitals (MDH) | 148 | 599 | 601 | 0.3 |
| SCH, RRC and EACH | 151 | 807 | 814 | 0.9 |
| MDH, RRC and EACH | 24 | 663 | 667 | 0.6 |
| **Type of Ownership:** | | | | |
| Voluntary | 1,883 | 990 | 996 | 0.6 |
| Proprietary | 828 | 889 | 895 | 0.7 |
| Government | 487 | 1,034 | 1,040 | 0.6 |
| **Medicare Utilization as a Percent of Inpatient Days:** | | | | |
| 0-25 | 643 | 1,118 | 1,125 | 0.6 |
| 25-50 | 2,113 | 969 | 974 | 0.5 |
| 50-65 | 366 | 797 | 798 | 0.1 |
| Over 65 | 51 | 597 | 603 | 1.0 |
| **2022 Reclassifications by the Medicare Classification Review Board:** | | | | |
| All Reclassified Hospitals | 1,048 | 988 | 991 | 0.3 |
| All Nonreclassified Hospitals | 2,150 | 970 | 978 | 0.8 |
| Urban Hospitals Reclassified | 860 | 1,030 | 1,031 | 0.1 |
| Urban Nonreclassified Hospitals | 1,612 | 994 | 1,004 | 1.0 |
| Rural Hospitals Reclassified Full Year | 304 | 691 | 699 | 1.2 |
| Rural Nonreclassified Hospitals Full Year | 422 | 639 | 644 | 0.8 |
| All Section 401 Reclassified Hospitals | 550 | 1,049 | 1,048 | -0.1 |
| Other Reclassified Hospitals (Section 1886(d)(8)(B)) | 56 | 662 | 669 | 1.1 |
J. Effects of Proposed Payment Rate Changes and Policy Changes Under the LTCH PPS

1. Introduction and General Considerations

In section VII. of the preamble of this proposed rule and section V. of the Addendum to this proposed rule, we set forth the proposed annual update to the payment rates for the LTCH PPS for FY 2022. In the preamble of this proposed rule, we specify the statutory authority for the provisions that are presented, identify the policies for FY 2022, and present rationale for our proposals as well as alternatives that were considered. In this section of Appendix A to this proposed rule, we discuss the impact of the proposed changes to the payment rate, factors, and other payment rate policies related to the LTCH PPS that are presented in the preamble of this proposed rule in terms of their estimated fiscal impact on the Medicare budget and on LTCHs.

There are 363 LTCHs included in this impact analysis. We note that, although there are currently approximately 373 LTCHs, for purposes of this impact analysis, we excluded the data of all-inclusive rate providers consistent with the development of the FY 2022 LTCH DRG relative weights (discussed in section VII.B.3.c. of the preamble of this proposed rule. Moreover, in the claims data used for this proposed rule, 3 of these 363 LTCHs only have claims for site neutral payment rate cases and, therefore, do not affect our impact analysis for LTCH PPS standard Federal payment rate cases.

In the impact analysis, we used the proposed payment rate, factors, and policies presented in this proposed rule, the proposed 2.2 percent annual update to the LTCH PPS standard Federal payment rate, the proposed update to the MS–LTCH–DRG classifications and relative weights, the proposed update to the wage index values and labor-related share, and the best available claims and CCR data to estimate the change in payments for FY 2022.

Under the dual rate LTCH PPS payment structure, payment for LTCH discharges that meet the criteria for exclusion from the site neutral payment rate (that is, LTCH PPS standard Federal payment rate cases) is based on the LTCH PPS standard Federal payment rate. Consistent with the statute, the site neutral payment rate is the lower of the IPPS comparable per diem amount as determined under §412.529(d)(4), including any applicable outlier payments as specified in §412.525(a), reduced by 4.6 percent for FYs 2018 through 2026; or 100 percent of the estimated cost of the case as determined under §412.529(d)(2). In addition, there are two separate high cost outlier targets—one for LTCH PPS standard Federal payment rate cases and one for site neutral payment rate cases. The statute also establishes a transitional payment method for cases that are paid the site neutral payment rate for LTCH PPS payments in cost reporting periods beginning during FY 2016 through FY 2019. For FY 2021 and FY 2022, we expected no site neutral payment rate cases would still be eligible for the transitional payment method since it only applies to those site neutral payment rate cases whose discharges occur during a LTCH’s cost reporting period that begins before October 1, 2019. Site neutral payment rate cases whose discharges from an LTCH occur during the LTCH’s cost reporting period that begins on or after October 1, 2019 are paid the site neutral payment rate amount determined under §412.522(c)(1). Therefore, for purposes of this impact analysis, to estimate total LTCH PPS payments for site neutral payment rate cases in FYs 2021 and 2022 the site neutral payment rate amount was applied in full.

Based on the best available data for the 363 LTCHs in our database that were considered in the analyses used for this proposed rule, we estimate that overall LTCH PPS payments in FY 2022 will increase by approximately 1.4 percent (or approximately $52 million) based on the proposed rates and factors presented in section VII. of the preamble and section V. of the Addendum to this proposed rule.

Based on the FY 2019 LTCH cases that were used for the analysis in this proposed rule, approximately 25 percent of LTCH cases were classified as site neutral payment rate cases (that is, 25 percent of LTCH cases did not meet the statutory patient-level criteria for exclusion from the site neutral payment rate). Our Office of the Actuary currently estimates that the percent of LTCH PPS cases that will be paid at the site neutral payment rate in FY 2022 will not change significantly from the most recent historical data. Taking into account updates to the IPPS rates and other changes that will apply to the site neutral payment rate cases in FY 2022, we estimated LTCH PPS payments for these site neutral payment rate cases will increase by approximately 3 percent (or approximately $11 million). This projected increase in payments to LTCH PPS site neutral payment rate cases is primarily due to the proposed updates to the IPPS rates used in calculating the IPPS comparable per diem amount, as well as an estimated increase in costs for these cases determined using the charge and CCR adjustment factors described in section V.D.3.b. of the Addendum to this proposed rule. We note, we estimate payments to site neutral payment rate cases in FY 2022 represent approximately 10 percent of estimated aggregate FY 2022 LTCH PPS payments.

Based on the FY 2019 LTCH cases that were used for the analysis in this proposed rule, approximately 75 percent of LTCH cases will meet the patient-level criteria for exclusion from the site neutral payment rate in FY 2022, and will be paid based on the LTCH PPS standard Federal payment rate for the full year. We estimate that total LTCH PPS payments for these LTCH PPS standard Federal payment rate cases in FY 2022 will increase approximately 1.2 percent (or approximately $41 million). This estimated increase in LTCH PPS payments for LTCH PPS standard Federal payment rate cases in FY 2022 is substantially the same as the proposed 2.2 percent annual update to the LTCH PPS standard Federal payment rate for FY 2022 and the projected 0.8 percent decrease in high cost outlier payments, which is discussed later in this section.

Based on the 363 LTCHs that were represented in the FY 2019 LTCH cases that were used for the analyses in this proposed rule presented in this Appendix, we estimate that aggregate FY 2021 LTCH PPS payments will be approximately $3.771 billion, as compared to estimated aggregate proposed FY 2022 LTCH PPS payments of approximately $4.222 billion resulting in an estimated overall increase in LTCH PPS payments of approximately $52 million. We note that the estimated $52 million increase in LTCH PPS payments in FY 2022 does not reflect changes in LTCH admissions or case-mix intensity, which will also affect the overall payment effects of the policies in this proposed rule.

The LTCH PPS standard Federal payment rate for FY 2021 is $43,755.34. For FY 2022, we are proposing to establish an LTCH PPS standard Federal payment rate of $44,827.87 which reflects the proposed 2.2 percent annual update to the LTCH PPS standard Federal payment rate and the proposed budget neutrality factor for proposed updates to the area wage level adjustment of 1.002458 (discussed in section VI.B.6. of the Addendum to this proposed rule). For LTCHs that fail to submit data for the LTCH QRP, in accordance with section 1886(m)(9)(C) of the Act, we are proposing to establish an LTCH PPS standard Federal payment rate of $43,950.62. This proposed LTCH PPS standard Federal payment rate reflects the updates and factors previously described, as well as the required 2.0 percentage point reduction to the annual update for failure to submit data under the LTCH QRP.

Table IV shows the estimated impact for LTCH PPS standard Federal payment rate cases. The estimated change attributable solely to the proposed annual update of 2.2 percent to the LTCH PPS standard Federal payment rate is projected to result in an increase of 2.1 percent in payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022, on average, for all LTCHs (Column 6). The estimated increase of 2.1 percent shown in Column 6 of Table IV also includes estimated payments for short-stay outlier (SSO) cases, a portion of which are not affected by the annual update to the LTCH PPS standard Federal payment rate, as well as the reduction that is applied to the annual update for LTCHs that do not submit the required LTCH QRP data. For most hospital categories, the projected increase in payments based on the LTCH PPS standard Federal payment rate to LTCH PPS standard Federal payment rate cases also rounds to approximately 2.1 percent.

For FY 2022, we are proposing to update the wage index values based on the most recent available data (data from cost reporting periods beginning during FY 2018 which is the same data used for the proposed FY 2022 IPPS wage index). We also are proposing a labor-related share of 68.0 percent for FY 2022, based on the most recent available data (discussed in section VII.B.6. of the Addendum to this proposed rule) on the relative importance of the labor-related share of operating and capital costs of the 2017-based LTCH market basket. We also are proposing to apply an area wage level budget neutrality factor of 1.002458 to ensure that the proposed changes to the area wage level adjustment would not
result in any change in estimated aggregate LTC PPS payments to LTC PPS standard Federal payment rate cases.

For LTC PPS standard Federal payment rate cases, we currently estimate high cost outlier payments as a percentage of total LTC PPS payment amounts. For FY 2022, Federal payment rate payments will decrease from FY 2021 to FY 2022. Based on the FY 2019 LTCH cases that were used for the analyses in this proposed rule, we estimate that the FY 2021 high cost outlier threshold of $27,195 (as established in the FY 2021 IPPS/LTCH PPS final rule) would result in estimated high cost outlier payments for LTC PPS standard Federal payment rate cases in FY 2021 that are projected to exceed the 7.975 percent target. Specifically, we currently estimate that high cost outlier payments for LTC PPS standard Federal payment rate cases will be approximately 8.8 percent of the estimated total LTC PPS standard Federal payment rate payments in FY 2021. Combined with our estimate that FY 2022 high cost outlier payments for LTC PPS standard Federal payment rate cases will be 7.975 percent of estimated total LTCH PPS standard Federal payment rate payments in FY 2022, this will result in an estimated decrease in high cost outlier payments of approximately 0.83 percent between FY 2021 and FY 2022. We note that, in calculating these estimated high cost outlier payments, we inflated charges reported on the FY 2019 claims by the charge inflation factor proposed in section V.D.3.b. of the Addendum to this proposed rule. We also note that these estimated high cost outlier payments, we estimated the cost of each case by multiplying the inflated charges by the adjusted CCRs that we determined using our proposed methodology described in section V.D.3.b. of the Addendum to this proposed rule.

Table IV shows the estimated impact of the payment rate and policy changes on LTC PPS payments for LTC PPS standard Federal payment rate cases. For FY 2022 payment rate cases for FY 2022 by comparing the FY 2021 LTCH PPS payments to estimated FY 2022 LTCH PPS payments. (As noted earlier, our analysis does not reflect changes in LTCH admission or case-mix intensity.) We note that these impacts do not include the projected increases in cost of the case, reduced by 4.6 percent for FYs 2018 through 2026, including any applicable high cost outlier (HCO) payments, or 100 percent of the estimated cost of the case, reduced by 4.6 percent. As discussed in section I.J.2. of this Appendix, we project an increase in aggregate LTCH PPS payments in FY 2022 of approximately $32 million. This estimated increase in payments reflects the projected increase in payments to LTCH PPS standard Federal payment rate cases of approximately $41 million and the projected increase in payments to LTCH PPS standard Federal payment rate cases of approximately $11 million under the dual rate LTCH PPS payment rate structure required by the statute.

As discussed in section V.D. of the Addendum to this proposed rule, our actuaries project cost and resource changes for site neutral payment rate cases due to the site neutral payment rate requirements under the statute. Specifically, our actuaries project that the costs and resource use for cases paid at the site neutral payment rate will likely be lower, on average, than the costs and resource use for cases paid at the LTCH PPS standard Federal payment rate, and will likely mirror the costs and resource use for IPPS cases assigned to the same MS–DRG. While we are able to incorporate this projection at an aggregate level into our payment modeling, because the historical claims data that we are using in this proposed rule to project estimated FY 2022 LTCH PPS payments (as of FY 2019 LTCH claims data) do not reflect this actuarial projection, we are unable to model the impact of the change in LTCH PPS payments for site neutral payment rate cases at the same level of detail with which we are able to model the impacts of the changes to LTC PPS payments for LTCH PPS standard Federal payment rate cases. Therefore, Table IV only reflects changes in LTCH PPS payments for LTCH PPS standard Federal payment rate cases and, unless otherwise noted, the remaining discussion in section I.J.3. of this Appendix refers only to the effects of these changes to LTCH PPS standard Federal payment rate cases. In the following section, we present our proposed provider impact analysis for the changes that affect LTCH PPS payments for LTCH PPS standard Federal payment rate cases.

b. Proposed Impact on Providers

The basic methodology for determining a per discharge payment for LTCH PPS standard Federal payment rate cases is currently set forth under §§ 412.515 through 412.535. In addition to adjusting the LTCH PPS standard Federal payment rate by the MS–LTCH–DRG relative weight, we make adjustments to account for area wage levels and SSOs. LTCHs located in Alaska and Hawaii also have their payments adjusted by a COLA. Under our application of the dual rate LTCH PPS payment structure, the LTCH PPS standard Federal payment rate is generally only used when payment is made for LTCH PPS standard Federal payment rate cases (that is, those LTCH PPS cases that meet the statutory criteria to be excluded from the site neutral payment rate). LTCH discharges that do not meet the patient-level criteria for exclusion are paid the site neutral payment rate, which we are calculating as the lower of the IPPS comparable per diem amount as determined under § 412.529(d)(4), reduced by 4.6 percent for FYs 2018 through 2026, including any applicable outlier payments, or 100 percent of the estimated cost of the case as determined under existing § 412.529(d)(2). In addition, when certain thresholds are met, LTCHs also receive HCO payments for both LTCH PPS standard Federal payment rate cases and LTCH PPS standard Federal payment rate cases presented in this proposed rule to account for different categories of LTCHs for FY 2022. It is necessary to estimate payments per discharge for FY 2021 using the rates, factors, and the policies established in the FY 2021 IPPS/LTCH PPS finalist rule and estimate payments per discharge for FY 2022 using the proposed rates, factors, and the policies in this FY 2022 IPPS/LTCH PPS proposed rule (as discussed in section VII. of the preamble of this proposed rule and section V. of the Addendum to this proposed rule). As discussed elsewhere in this proposed rule, these estimates are based on the best available LTCH claims data and other factors, such as the application of inflation factors to estimate costs for HCO cases in each year. The resulting analyses can then be used to calculate how our policies applicable to LTCH PPS standard Federal payment rate cases affect different groups of LTCHs.

For the following analysis, we group LTCHs on the basis of characteristics provided in the OSCAR data, cost report data in HCRIS, and PSF data. Hospital groups included the following:

19 rural LTCHs (out of 363 LTCHs) that were
c. Proposed Calculation of LTCH PPS Payments for LTCH PPS Standard Federal Payment Rate Cases

For purposes of this impact analysis, to estimate the per discharge payment effects of our policies on payments for LTCH PPS standard Federal payment rate cases, we simulated FY 2021 and proposed FY 2022 payments on a case-by-case basis using historical LTCH claims from the FY 2019 MedPAR files that met or would have met the criteria to be paid at the LTCH PPS standard Federal payment rate if the statutory patient-level criteria had been in effect at the time of discharge for all cases in the FY 2019 MedPAR files. For modeling FY 2021 LTCH PPS payments, we used the FY 2021 standard Federal payment rate of $43,755.34 (or $42,899.90 for LTCHs that failed to submit quality data as required under the requirements of the LTCH QRP). Similarly, for modeling payments based on the proposed FY 2022 LTCH PPS standard Federal payment rate, we used the proposed FY 2022 standard Federal payment rate of $44,827.87 (or $43,950.62 for LTCHs that failed to submit quality data as required under the requirements of the LTCH QRP). In each case, we applied the applicable adjustments for area wage levels and the COLA for LTCHs located in Alaska and Hawaii. Specifically, for modeling FY 2021 LTCH PPS payments, we used the current FY 2021 labor-related share (68.1 percent), the wage index values established in the Tables 12A and 12B listed in the Addendum to the FY 2021 IPPS/LTCH PPS final rule (which are available via the internet on the CMS website), the FY 2021 HCO fixed-loss amount for LTCH PPS standard Federal payment rate cases of $27,195 (as reflected in the FY 2021 IPPS/LTCH PPS final rule), and the FY 2021 COLA factors (shown in the table in section V.C. of the Addendum to that final rule) to adjust the FY 2021 nonlabor-related share (31.9 percent) for LTCHs located in Alaska and Hawaii. Similarly, for modeling proposed FY 2022 LTCH PPS payments, we used the proposed FY 2022 LTCH PPS labor-related share (68.0 percent), the proposed FY 2022 wage index values from Tables 12A and 12B listed in section VI. of the Addendum to this proposed rule (which are available via the internet on the CMS website), the proposed FY 2022 HCO fixed-loss amount for LTCH PPS standard Federal payment rate cases of $32,680 (as discussed in section V.D.3. of the Addendum to this proposed rule), and the proposed FY 2022 COLA factors (shown in the table in section V.C. of the Addendum to this proposed rule) to adjust the proposed FY 2022 nonlabor-related share (32.0 percent) for LTCHs located in Alaska and Hawaii.

We note that in modeling payments for HCO cases for LTCH PPS standard Federal payment rate cases, we inflated charges reported on the FY 2019 claims by the charge inflation factors proposed in section V.D.3.b. of the Addendum to this proposed rule. We also note that in modeling payments for HCO cases for LTCH PPS standard Federal payment rate cases, we estimated the cost of each case by multiplying the inflated charges by the adjusted CCRs that we determined using our proposed methodology described in section V.D.3.b. of the Addendum to this proposed rule. The impacts that follow reflect the estimated “losses” or “gains” among the various classifications of LTCHs from FY 2021 to FY 2022 based on the payment rates and policy changes applicable to LTCH PPS standard Federal payment rate cases presented in this proposed rule. Table IV illustrates the estimated aggregate impact of the change in LTCH PPS payments for LTCH PPS standard Federal payment rate cases among various classifications of LTCHs. (As discussed previously, these impacts do not include LTCH PPS site neutral payment rate cases.)

- The first column, LTCH Classification, identifies the type of LTCH.
- The second column lists the number of LTCHs of each classification type.
- The third column identifies the number of LTCH cases expected to meet the LTCH PPS standard Federal payment rate criteria.
- The fourth column shows the estimated FY 2021 payment per discharge for LTCH cases expected to meet the LTCH PPS standard Federal payment rate criteria.
- The fifth column shows the estimated proposed FY 2022 payment per discharge for LTCH cases expected to meet the LTCH PPS standard Federal payment rate criteria (as described previously).
- The sixth column shows the percentage change in estimated payments per discharge for LTCH cases expected to meet the LTCH PPS standard Federal payment rate criteria from FY 2021 to FY 2022 due to the proposed annual update to the standard Federal rate (as discussed in section V.A.2. of the Addendum to this proposed rule).
- The seventh column shows the percentage change in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022 for changes to the area wage level adjustment (that is, the updated hospital wage data and labor-related share) and the application of the proposed corresponding budget neutrality factor (as discussed in section V.B.6. of the Addendum to this proposed rule).
- The eighth column shows the percentage change in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 (Column 4) to FY 2022 (Column 5) for all proposed changes.
TABLE IV: IMPACT OF PAYMENT RATE AND POLICY CHANGES TO LTCH PPS PAYMENTS FOR LTCH PPS STANDARD FEDERAL PAYMENT RATE CASES FOR FY 2022 (ESTIMATED FY 2021 PAYMENTS COMPARED TO ESTIMATED FY 2022 PAYMENTS)

<table>
<thead>
<tr>
<th>LTCH Classification</th>
<th>No. of LTCHS</th>
<th>Number of LTCH PPS Standard Payment Rate Cases</th>
<th>Average FY 2021 LTCH PPS Payment Per Standard Payment Rate</th>
<th>Average FY 2022 LTCH PPS Payment Per Standard Payment Rate</th>
<th>Change Due to Change to the Annual Update to the Standard Federal Rate</th>
<th>Change Due to Area Wage Adjustment with Wage Neutrality</th>
<th>Percent Change Due to All Standard Payment Rate Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL PROVIDERS</td>
<td>360</td>
<td>68,764</td>
<td>49,641</td>
<td>50,237</td>
<td>2.1</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>BY LOCATION:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RURAL</td>
<td>19</td>
<td>2,998</td>
<td>39,667</td>
<td>40,246</td>
<td>2.2</td>
<td>0.1</td>
<td>1.5</td>
</tr>
<tr>
<td>URBAN</td>
<td>341</td>
<td>65,766</td>
<td>50,096</td>
<td>50,693</td>
<td>2.1</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>BY PARTICIPATION DATE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BEFORE OCT. 1983</td>
<td>10</td>
<td>1,788</td>
<td>46,792</td>
<td>47,173</td>
<td>2.1</td>
<td>-0.2</td>
<td>0.8</td>
</tr>
<tr>
<td>OCT. 1983 - SEPT. 1993</td>
<td>40</td>
<td>8,883</td>
<td>55,330</td>
<td>56,012</td>
<td>2.1</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>OCT. 1993 - SEPT. 2002</td>
<td>145</td>
<td>28,209</td>
<td>48,599</td>
<td>49,177</td>
<td>2.1</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>AFTER OCTOBER 2002</td>
<td>165</td>
<td>29,884</td>
<td>49,105</td>
<td>49,705</td>
<td>2.1</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>BY OWNERSHIP TYPE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOLUNTARY</td>
<td>60</td>
<td>8,517</td>
<td>52,453</td>
<td>52,953</td>
<td>2.1</td>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>PROPRIETARY</td>
<td>290</td>
<td>59,088</td>
<td>49,013</td>
<td>49,617</td>
<td>2.1</td>
<td>-0.1</td>
<td>1.2</td>
</tr>
<tr>
<td>GOVERNMENT</td>
<td>10</td>
<td>1,159</td>
<td>61,027</td>
<td>61,911</td>
<td>2.0</td>
<td>0.7</td>
<td>1.4</td>
</tr>
<tr>
<td>BY REGION:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEW ENGLAND</td>
<td>10</td>
<td>2,374</td>
<td>44,563</td>
<td>44,924</td>
<td>2.1</td>
<td>-0.5</td>
<td>0.8</td>
</tr>
<tr>
<td>MIDDLE ATLANTIC</td>
<td>23</td>
<td>5,310</td>
<td>57,600</td>
<td>57,979</td>
<td>2.1</td>
<td>-0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>SOUTH ATLANTIC</td>
<td>62</td>
<td>13,107</td>
<td>48,966</td>
<td>49,708</td>
<td>2.1</td>
<td>0.3</td>
<td>1.5</td>
</tr>
<tr>
<td>EAST NORTH CENTRAL</td>
<td>55</td>
<td>10,260</td>
<td>48,549</td>
<td>49,113</td>
<td>2.2</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>EAST SOUTH CENTRAL</td>
<td>31</td>
<td>5,784</td>
<td>44,635</td>
<td>44,962</td>
<td>2.2</td>
<td>-0.5</td>
<td>0.7</td>
</tr>
<tr>
<td>WEST NORTH CENTRAL</td>
<td>22</td>
<td>4,152</td>
<td>47,110</td>
<td>47,704</td>
<td>2.2</td>
<td>0.5</td>
<td>1.3</td>
</tr>
<tr>
<td>WEST SOUTH CENTRAL</td>
<td>105</td>
<td>17,198</td>
<td>44,596</td>
<td>45,051</td>
<td>2.2</td>
<td>-0.3</td>
<td>1.0</td>
</tr>
<tr>
<td>MOUNTAIN</td>
<td>29</td>
<td>3,371</td>
<td>50,753</td>
<td>51,597</td>
<td>2.1</td>
<td>0.3</td>
<td>1.7</td>
</tr>
<tr>
<td>PACIFIC</td>
<td>23</td>
<td>7,208</td>
<td>65,226</td>
<td>66,278</td>
<td>2.0</td>
<td>0.4</td>
<td>1.6</td>
</tr>
<tr>
<td>BY BED SIZE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BEDS: 0-24</td>
<td>22</td>
<td>2,243</td>
<td>47,639</td>
<td>48,118</td>
<td>2.2</td>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>BEDS: 25-49</td>
<td>166</td>
<td>23,651</td>
<td>46,455</td>
<td>47,035</td>
<td>2.2</td>
<td>0.0</td>
<td>1.2</td>
</tr>
</tbody>
</table>
Results

Based on the FY 2019 LTCH cases from 363 LTCHs that were used for the analyses in this proposed rule, we have prepared the following summary of the impact (as shown in Table IV) of the LTCH PPS payment rate and proposed policy changes for LTCH PPS standard Federal payment rate cases presented in this proposed rule. The impact analysis in Table IV shows that estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022 for changes due to the proposed changes to the area wage level adjustment under §412.525(c) (i.e., updated hospital wage data and the proposed labor related share).

<table>
<thead>
<tr>
<th>LTCH Classification</th>
<th>No. of LTCHS</th>
<th>Number of LTCH PPS Standard Payment Rate Cases</th>
<th>Average FY 2021 LTCH PPS Payment Per Standard Payment Rate</th>
<th>Average FY 2022 LTCH PPS Payment Per Standard Payment Rate</th>
<th>Change Due to Change to the Annual Update to the Standard Federal Rate</th>
<th>Percent Change Due to Changes to Area Wage Adjustment with Wage Budget Neutrality</th>
<th>Percent Change Due to All Standard Payment Rate Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEDS: 50-74</td>
<td>97</td>
<td>19,086</td>
<td>50,069</td>
<td>50,651</td>
<td>2.1</td>
<td>-0.1</td>
<td>1.2</td>
</tr>
<tr>
<td>BEDS: 75-124</td>
<td>48</td>
<td>13,852</td>
<td>53,853</td>
<td>54,574</td>
<td>2.1</td>
<td>0.1</td>
<td>1.3</td>
</tr>
<tr>
<td>BEDS: 125-199</td>
<td>19</td>
<td>5,977</td>
<td>51,675</td>
<td>52,152</td>
<td>2.1</td>
<td>-0.3</td>
<td>0.9</td>
</tr>
<tr>
<td>BEDS: 200+</td>
<td>8</td>
<td>3,955</td>
<td>49,938</td>
<td>50,508</td>
<td>2.1</td>
<td>0.0</td>
<td>1.1</td>
</tr>
</tbody>
</table>

1 Estimated FY 2022 LTCH PPS payments for LTCH PPS standard Federal payment rate criteria based on the payment rate and factor changes applicable to such cases presented in the preamble of and the Addendum to this proposed rule.
2 Percent change in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022 for the proposed annual update to the LTCH PPS standard Federal payment rate.
3 Percent change in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022 for changes due to the proposed changes to the area wage level adjustment under § 412.525(c) (i.e., updated hospital wage data and the proposed labor related share).
4 Percent change in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 (shown in Column 4) to FY 2022 (shown in Column 5), including all of the changes to the rates and factors applicable to such cases presented in the preamble and the Addendum to this proposed rule. We note that this column, which shows the percent change in estimated payments per discharge for all changes, does not equal the sum of the percent changes in estimated payments per discharge for the annual update to the LTCH PPS standard Federal payment rate (Column 6) and the changes due to the changes to the area wage level adjustment with budget neutrality (Column 7) due to the effect of estimated changes in estimated payments to aggregate HCO payments for LTCH PPS standard Federal payment rate cases (as discussed in this impact analysis), as well as other interactive effects that cannot be isolated.
standard Federal payment rate cases are projected to increase 1.2 percent, on average, for all LTCHs from FY 2021 to FY 2022 as a result of the proposed payment rate and policy changes applicable to LTCH PPS standard Federal payment rate cases presented in this proposed rule. The estimated 1.2 percent increase in LTCH PPS payments per discharge was determined by comparing estimated proposed FY 2022 LTCH PPS payments (using the proposed payment rates and factors discussed in this proposed rule) to estimated FY 2021 LTCH PPS payments for LTCH discharges which will be LTCH PPS standard Federal payment rate cases if the dual rate LTCH PPS payment structure was or had been in effect at the time of the discharge (as described in section I.J.3. of this Appendix).

As stated previously, we are proposing to update the LTCH PPS standard Federal payment rate for FY 2022 by 2.2 percent. For LTCHs that fail to submit quality data under the requirements of the LTCH QRP, as required by section 1886(m)(4)(A) of the Act, a 2.0 percent percentage point reduction is applied to the annual update to the LTCH PPS standard Federal payment rate. Consistent with §412.523(d)(4), we also are applying a proposed budget neutrality factor for LTCHs to account for a change in area wage level adjustment of 1.002458 (discussed in section V.B.6. of the Addendum to this proposed rule), based on the best available data at this time, to ensure that any proposed changes to the area wage level adjustment will not result in any change (increase or decrease) in estimated aggregate LTCH PPS standard Federal payment rate payments. As we also explained earlier in this section, for most categories of LTCHs (as shown in Table IV, Column 6), the estimated payment increase due to the proposed 2.2 percent annual update to the LTCH PPS standard Federal payment rate is projected to result in an approximately a 2.1 percent increase in estimated payments per discharge for LTCH PPS standard Federal payment rate cases for all LTCHs from FY 2021 to FY 2022. We note our estimate of the changes in payments due to the proposed update to the LTCH PPS standard Federal payment rate also includes estimated payments for short-stay outlier (SSO) cases, a portion of which are not affected by the annual update to the LTCH PPS standard Federal payment rate, as well as the reduction that is applied to the annual update for LTCHs that do not submit the required LTCH QRP.

(2) Participation Date

LTCHs are grouped by participation date into four categories: (1) Before October 1983; (2) between October 1983 and September 1993; (3) between October 1993 and September 2002; and (4) October 2002 and after. Based on the best available data, the categories of LTCHs with the largest expected percentage of LTCH PPS standard Federal payment rate cases (approximately 41 percent and 43 percent, respectively) are in LTCHs that began participating in the Medicare program between October 1993 and September 2002 and after October 2002. These LTCHs are expected to both experience an increase in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022 of 1.2 percent. LTCHs that began participating in the Medicare program between October 1983 and September 1993 are also projected to experience an increase in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022 of 1.2 percent, as shown.

Approximately 3 percent of LTCHs began participating in the Medicare program before October 1983, and these LTCHs are projected to experience an average percent increase of 0.8 percent in estimated payments per discharge for LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022.

(3) Ownership Control

LTCHs are grouped into three categories based on ownership control type: Voluntary, proprietary, and government. Based on the best available data, approximately 17 percent of LTCHs are identified as voluntary (Table IV). The majority (approximately 81 percent) of LTCHs are identified as proprietary, while government owned and operated LTCHs represent approximately 3 percent of LTCHs. Based on ownership type, voluntary and proprietary LTCHs are each expected to experience an increase of 1.0 percent and 1.2 percent in payments to LTCH PPS standard Federal payment rate cases for all LTCHs that began participating in the Medicare program after October 1983; these LTCHs are expected to experience a 1.4 percent increase in payments to LTCH PPS standard Federal payment rate cases from FY 2021 to FY 2022.

(4) Census Region

Estimated payments per discharge for LTCH PPS standard Federal payment rate cases for FY 2022 are projected to increase across all census regions. LTCHs located in the Mountain region are projected to experience the largest increase at 1.7 percent. The remaining regions are projected to experience an increase in payments in the range of 0.7 to 1.6 percent. These regional variations are primarily due to the proposed changes to the area wage adjustment.

(5) Bed Size

LTCHs are grouped into six categories based on bed size: 0–24 beds; 25–49 beds; 50–74 beds; 75–124 beds; 125–199 beds; and greater than 200 beds. We project that LTCHs with 125–199 beds will experience the lowest increase in payments for LTCH PPS standard Federal payment rate cases, 0.9 percent. LTCHs with 75–124 beds are projected to experience the largest increase in payments of 1.3 percent. The remaining bed size categories are projected to experience an increase in payments in the range of 1.0 to 1.2 percent.

4. Effect on the Medicare Program

As stated previously, we project that the provisions of this proposed rule will result in an increase in estimated aggregate LTCH PPS payments to LTCH PPS standard Federal payment rate cases in FY 2022 relative to FY 2021 of approximately $41 million (or approximately 1.2 percent) for the 363 LTCHs in our database. Although, as stated previously, the hospital-level impacts do not include LTCH PPS site neutral payment rate cases, we estimate that the provisions of this proposed rule will result in an increase in estimated aggregate LTCH PPS payments to site neutral payment rate cases in FY 2022 relative to FY 2021 of approximately $11 million (or approximately 3 percent) for the 363 LTCHs in our database. (As noted previously, we estimate payments to site neutral payment rate cases in FY 2022 represent approximately 10 percent of total estimated FY 2022 LTCH PPS payments.) Therefore, we project that the provisions of this proposed rule will result in an increase in estimated aggregate LTCH PPS payments for all LTCH cases in FY 2022 relative to FY 2021 of approximately $52 million (or approximately 1.4 percent) for the 363 LTCHs in our database.

5. Effect on Medicare Beneficiaries

Under the LTCH PPS, hospitals receive payment based on the average resources consumed by patients for each diagnosis. We do not expect any changes in the quality of care or access to services for Medicare beneficiaries as a result of this proposed rule, but we continue to expect that paying prospectively for LTCH services will enhance the efficiency of the Medicare program. As discussed previously, we do not expect the continued implementation of the site neutral payment system to have a negative impact on access to or quality of care, as demonstrated in areas where there is little or no LTCH presence, general short-term acute care hospitals are effectively providing treatment for the same types of patients that are treated in LTCHs.

K. Effects of Proposed Requirements for the Hospital Inpatient Quality Reporting (IQR) Program

In section IX.C. of the preamble of this proposed rule, we discuss our current and proposed requirements for hospitals to report quality data under the Hospital IQR Program in order to receive the full annual percentage increase for the FY 2023 payment determination and subsequent years. In this proposed rule, we are proposing to:

(1) Adopt the Maternal Morbidity Structural Measure beginning with a shortened reporting period from October 1 through December 31, 2021, affecting the FY 2023 payment determination, followed by an annual reporting period (affecting the FY 2024 payment determination and subsequent years);

(2) adopt the Hybrid HWM measure beginning with a one-year voluntary reporting period beginning July 1, 2022.
through June 30, 2023, before requiring mandatory reporting of the measure for the reporting period that would run from July 1, 2023 through June 30, 2024, affecting the FY 2026 payment determination and for subsequent years; (3) adopt the COVID–19 Vaccination Coverage Among HCP measure beginning with a shortened reporting period from October 1, 2021 through December 31, 2021 affecting the FY 2023 payment determination followed by quarterly reporting deadlines affecting the FY 2024 payment determination and subsequent years; (4) adopt two medication-related adverse event eCQMs (Hospital Harm-Severe Hypoglycemia eCQM and Hospital Harm-Severe Hyperglycemia eCQM) beginning with the CY 2023 reporting period/FY 2025 payment determination; (5) remove the Death Among Surgical Inpatients with Serious Treatable Complications (CMS PSI–04) measure beginning with the FY 2023 payment determination; (6) remove two eCQMs (Anticoagulation Therapy for Atrial Fibrillation eCQM and Discharged on Statin Medication eCQM) beginning with the FY 2026 payment determination; (7) remove the Exclusive Breast Milk Feeding (PC–05) measure beginning with the FY 2026 payment determination; (8) remove the Admit Decision Time to ED Departure Time for Admitted Patients (ED–2) measure beginning with the FY 2026 payment determination; (9) revise regulations at 42 CFR 412.140(a)(2) by replacing the term “QualityNet Administrator” with the term “QualityNet security official” and 42 CFR 412.140(c)(2)(i) by replacing the term “QualityNet system administrator” with the term “QualityNet security official”; (10) revise regulations at 42 CFR 412.140(a)(1) and 42 CFR 412.140(c)(2)(i) to remove references to “QualityNet.org” and replace with “QualityNet website”; (11) require the references to “QualityNet.org” and replace 42 CFR 412.140(c)(2)(i) to remove “QualityNet system administrator” with the term “QualityNet security official” and 42 CFR 412.140(e)(2)(iii) by replacing the term “QualityNet security official” with the term “QualityNet Administrator” with the term “QualityNet security official”, (previously known as the Medicare and Medicaid EHR Incentive Programs, we do not anticipate any additional costs as a result of this finalized proposal. This is because the burden and costs involved in updating to the 2015 Edition Cures Update for eCQMs and hybrid measures beginning with the FY 2025 payment determination; and (12) extend the effects of educational reviews for 4th quarter data such that if an error is identified and an educational review process for 4th quarter data, we would use the corrected quarterly score to compute the final confidence interval used for payment determination beginning with validations affecting the FY 2024 payment determination.

As shown in summary table in section XI.B.4.k of the preamble of this proposed rule, we estimate a total information collection burden increase for 3,300 IPPS hospitals of 2,475 hours at a cost of $101,475 annually associated with our proposed policies and updated burden estimates across hospitals of 2,475 hours at a cost of $101,475 a four year period from the CY 2022 reporting period/FY 2024 payment determination and subsequent years. Hospitals we refer readers to section X.B.4 of the preamble of this proposed rule (information collection requirements) for a detailed discussion of the calculations estimating the changes to the information collection burden for submitting data to the Hospital IQR Program.

As described in sections IX.C.8.e. and IX.C.8.f. of the preamble of this proposed rule, we are proposing an update to certification requirements requiring the use of the 2015 Edition Cures Update for eCQMs and hybrid measures beginning with the FY 2025 payment determination. We expect this proposal to have no impact on information collection burden for the Hospital IQR Program because this policy does not require hospitals to submit new data to CMS. With respect to any costs unrelated to data submission, although this finalized proposal will require some investment in systems updates, the Medicare Promoting Interoperability Program (previously known as the Medicare and Medicaid EHR Incentive Programs) we do not anticipate any additional costs as a result of this finalized proposal. This is because the burden and costs involved in updating to the 2015 Edition Cures Update is the same regardless of whether providers are not using the eCQMs or hybrid measures. Hybrid measure data is derived from both claims and clinical EHR data, via submission of QRDA I files, and we already collect and utilize claims data and QRDA I file data for other measures in the Hospital IQR Program measure set. In other words, what hospitals need to do is not measure-dependent. Therefore, we believe that the Medicare Promoting Interoperability Program has already addressed the additional costs unrelated to data collection through their previously finalized requirements.

We also note that in sections IX.C.5. and IX.C.6 of the preamble of this proposed rule we include proposals to adopt two new eCQMs and remove four eCQMs. Similar to the FY 2019 IPPS/11TH PPS final rule regarding removal of eCQM measures, while there is no change in information collection burden related to those proposals, we believe that costs are multifaceted and include not only the burden associated with reporting but also the costs associated with implementing and maintaining Program requirements, such as maintaining measure specifications in hospitals EHR systems for all of the eCQMs available for use in the Hospital IQR Program (83 FR 41771).

In section IX.C.5.c. of the preamble of this proposed rule we propose to adopt a COVID–19 HCP Vaccination Measure beginning with a shortened reporting period from October 1 to December 31, 2021 affecting the CY 2021 reporting period/FY 2023 payment determination followed by annual reporting beginning with the FY 2024 payment determination and subsequent years. Hospitals would submit data through the Centers for Disease Control and Prevention (CDC)/National Healthcare Safety Network (NHSN). The NHSN is a secure, internet-based system maintained by the CDC and provided free. Currently the CDC does not estimate burden for the CDC controlled data submission, and therefore do not require a 36.62/hr includes an adjustment of 100 percent of the median hourly wage to account for the cost of overhead, including fringe benefits.
all 3,300 IPPS hospitals would be between $1,087,614 ($329.58 × 3,300 IPPS hospitals) and $1,812,690 ($549.30 × 3,300 IPPS hospitals) annually thereafter. We recognize that many healthcare facilities are also reporting other COVID–19 data to HHS. We believe the total cost of reporting data on the COVID–19 HCP Vaccination measure to monitor, track, and provide transparency for the public on this important tool to combat COVID–19 outweigh the costs of reporting. We welcome comments on the estimated time to collect and enter data into the NHSN.

Historically, 100 hospitals, on average, that participate in the Hospital IQR Program do not receive the full annual percentage increase in any fiscal year due to the failure to meet all requirements of this Program. We anticipate that the number of hospitals not receiving the full annual percentage increase will be approximately the same as in past years.

L. Effects of Proposed Requirements for the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program

In section IX.D. of the preamble of this proposed rule, we proposed policies for the quality data reporting program for PPS-exempt cancer hospitals (PCHs), which we refer to as the PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program. The PCHQR Program is authorized under section 1866(c) of the Act, which was added by section 3005 of the Affordable Care Act. There is no financial impact to PCH Medicare reimbursement if a PCH does not submit data.

In section IX.D.4. of the preamble of this proposed rule, we are proposing to remove the Oncology: Plan of Care for Pain—Medical Oncology and Radiology Oncology (NQF #3083/PCH–15) measure beginning with the FY 2024 program year, adopt the COVID–19 Vaccination Coverage Among Healthcare Personnel (HCP) measure beginning with the FY 2023 program year, with reporting for the FY 2023 program year from October 1 through December 31, 2021, followed by annual reporting beginning with the FY 2024 program year, and codify existing program policies. As stated in section XII.B.7. of the preamble of this proposed rule, we estimate the total burden reduction associated with the proposal to remove PCH–15 beginning with the FY 2023 program year to be 2.75 hours (0.25 hours × 15 beginning with the FY 2024 program year) and a total cost reduction of $113 (2.75 hours × $41.00/hr). We do not estimate any changes in burden or cost in association with our other proposals for this program.

In section IX.D.5. of the preamble of this proposed rule, we are proposing to adopt a COVID–19 HCP Vaccination Measure beginning with a shortened reporting period from October 1 to December 31, 2021, affecting the FY 2023 program year followed by annual reporting beginning with the FY 2024 program year and subsequent years. PCHs would submit data through the CDC NHSN. The NHSN is a secure, internet-based system maintained by the CDC and provided free. Currently the CDC does not estimate burden for COVID–19 vaccination reporting under the CDC PRA package currently approved under OMB control number 0920–1317 because the agency has been granted a waiver under Section 321 of the National Childhood Vaccine Injury Act (NCVIA). Although the burden associated with the COVID–19 HCP Vaccination measure is not accounted for under the CDC PRA 0920–1317 or 0920–0606 then information is included here. We estimate that it would take each PCH, on average, approximately 1 hour per month to collect data for the COVID–19 Vaccination Coverage among HCP measure and enter it into NHSN. We have calculated the time to complete this entire activity, since it could vary based on provider systems and staff availability. This burden is comprised of administrative hours and wages. We believe it would take an Administrative Assistant 45 between 45 minutes and 1 hour 15 minutes to enter this data into NHSN. For the shortened CY 2021 reporting period (consisting of October 1, 2021 through December 31, 2021), three months would be required. For the CY 2021 reporting period/YF 2023 program year, PCHs would incur an additional burden between 2.25 hours (0.75 hours × 3 months) and 3.75 hours (1.25 hours × 3 months) per PCH. For all 11 PCHs, the total burden would range from 24.75 hours (2.25 hours × 11 hospitals) and 41.25 hours (3.75 hours × 11 hospitals). Each PCH would incur an estimated cost of between $27.47 (0.75 hour × $36.62/hr) and $45.78 (1.25 hours × 36.63/hr) monthly and between $82.40 (2.25 hours × $36.62/hr) and $137.33 (3.75 hours × $36.62/hr) in total over the shortened period to complete this burden; 12 months of data would be required annually. Therefore, PCHs would incur an additional annual burden between 9 hours (0.75 hours/month × 12 months) and 15 hours (1.25 hours/month × 12 months) per PCH and between 99 hours (9 hours/hospital × 11 hospitals) and 165 hours (15 hours/hospital × 11 hospitals) for all PCHs. Each PCH would incur an estimated cost of between $329.58 (9 hours × $36.62/hr) and $549.30 annually (15 hours × $36.62/hr). The estimated cost across all 11 PCHs would be between $906.40 ($82.40/hospital × 11 hospitals) and $1,510.63 ($137.33/hospital × 11 hospitals) for the shortened CY 2021 reporting period. The estimated cost across all 11 PCHs would be between $3,625.38 ($329.58/hospital × 11 hospitals) and $6,042.30 ($549.30/hospital × 11 hospitals) annually thereafter. We recognize that many healthcare facilities are also reporting other COVID–19 data to HHS. We believe the benefits of reporting data on the COVID–19 HCP Vaccination measure to monitor, track, and provide transparency for the public on this important tool to combat COVID–19 outweigh the costs of reporting. We welcome comments on the estimated time to collect and data into the NHSN.

M. Effects of Proposed Requirements for the Long-Term Care Hospital Quality Reporting Program (LTCH QRP)

In section IX.E.4. of the preamble of this proposed rule, we are proposing to add one measure to the Long-Term Care Hospital (LTCH) Quality Reporting Program (QRP), and update a measure adopted in the FY 2020 IPPS/LTC final rule. We propose to add the COVID–19 Vaccination Coverage among Healthcare Personnel (HCP) measure and update the denominator for the Transfer of Health (TOH) Information to the Patient—Post-Acute Care (PAC) QRP and also begin publicly displaying data for the quality measures Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay and the Ventilator Liberation Rate for the Post-Acute Care (PAC) Long-Term Care Hospital (LTCH) Quality Reporting Program (QRP). In addition, we are proposing to publicly report measures using fewer quarters of data than previously finalized due to an exemption we granted the LTCHs under our regulations at 42 CFR 412.560(c)(4). Finally, we are seeking information on two issues: CMS’ future plans to define digital quality measures (dQMs) for the LTCH QRP; the potential use of Fast Healthcare Interoperability Resources (FHIR) for dQMs within the LTCH QRP; and input on CMS continued efforts to close the health equity gap.

We note that the CDC would account for the burden associated with the COVID–19 Vaccination Coverage among HCP measure collection under OMB control number 0920–1317 (expiration January 31, 2024). However, the CDC currently has a PRA waiver for the collection and reporting of vaccination data under section 321 of the National Childhood Vaccine Injury Act of 1986 (Pub. L. 99–660, enacted on November 14, 1986) (NCVIA). We refer readers to section XII.B.8, where CMS has provided an estimate of the burden and cost to LTCHs, and note that the CDC will include it in a revised information collection request for 0920–1317.

N. Effects of Proposed Requirements Regarding the Promoting Interoperability Program

In section IX.F.3.b. of the preamble of this rule, we are proposing the following changes for CY 2022 with eligible hospitals and CAHs that attest to CMS under the Medicare Promoting Interoperability Program: (1) To maintain the Electronic Prescribing Objective’s Query of PDMP measure as optional while increasing its available bonus from five points to 10 points for the EHR reporting period in CY 2022; (2) to modify the Provide Patients Electronic Access to Their Health Information Measure to establish a data availability requirement beginning with encounters with a date of service on or after January 1, 2016, beginning

---

1532 Section 321 of the National Childhood Vaccine Injury Act (NCVIA) (42 U.S.C. 300aa–1) provides the PRA waiver for activities that come under the NCVIA, including those in the NCVIA at section 30120 of the Public Health Service Act (42 U.S.C. 300aa–2). Section 321 is not codified in the U.S. Code, but can be found in a note at 42 U.S.C. 300aa–1. 1533 https://www.bls.gov/oes/current/oes436013.htm (accessed on March 30, 2021). The Interoperability Resources (FHIR) for dQMs associated with the LTCH QRP can be found in a note at 42 U.S.C. 300aa–1.
with the EHR reporting period in CY 2022; (3) to add a new Health Information Exchange (HIE) Bi-Directional Exchange measure as a yes/no attestation to the HIE objective as an optional alternative to the two existing measures, beginning with the EHR reporting period in CY 2022; (4) to require reporting on four of the existing Public Health and Clinical Data Exchange objective measures (Syndromic Surveillance Reporting, Immunization Registry Reporting, Electronic Case Reporting, and Electronic Reportable Laboratory Result Reporting); (5) adding a new measure to the Protect Patient Health Information objective that requires eligible hospitals and CAHs to attest to having completed an annual assessment of the SAFER Guides, beginning with the EHR reporting period in CY 2022; (6) to remove attestation statements 2 and 3 from the Promoting Interoperability Program’s prevention of information blocking requirement; and (7) to increase the minimum required score for the objectives and measures points to 60 points (out of 100 points) in order to be considered a meaningful EHR user. We are amending our regulation text as necessary to incorporate these proposed changes.

Next, in section VIII.D.3.b. of the preamble of this rule, we are proposing the following changes for CY 2023 with eligible hospitals and CAHs that attest to CMS under the Medicare Promoting Interoperability Program: (1) An EHR reporting period of a minimum of any continuous 90-day period in CY 2023 for new and returning participants (eligible hospitals and CAHs); and (2) to adopt two new eCQMs to the Medicare Promoting Interoperability Program’s eCQM measure set beginning with the reporting period in CY 2023, which is in alignment with the proposals under the Hospital IQR Program. We are amending our regulation text as necessary to incorporate these proposed changes.

Lastly, in section IX.F.3.b. of the preamble of this rule, we are proposing the following changes for CY 2024 with eligible hospitals and CAHs that attest to CMS under the Medicare Promoting Interoperability Program: (1) An EHR reporting period of a minimum of any continuous 180-day period in CY 2024 for new and returning participants (eligible hospitals and CAHs); and (2) to remove four eCQMs from the Medicare Promoting Interoperability Program’s eCQM measure set beginning with the reporting period in CY 2024, which is in alignment with the proposals under the Hospital IQR Program. We are amending our regulation text as necessary to incorporate these proposed changes.

For the EHR reporting period in CY 2022, the proposals summarized here are mainly extensions from or continuations of existing policies from last year’s FY 2021 IPPS/LTCH PPS final rule (85 FR 58966 through 58977) and the proposals included in the CY 2021 PFS final rule (85 FR 84825 through 84828). However, due to the update of hospital staff professional who most likely conducts the reporting for the Medicare Promoting Interoperability Program, we have updated the Bureau of Labor Statistics wage rate, and we have updated number of registered respondents. Such changes will result in an estimated total burden cost of $879,450 for CY 2022 (a net decrease of $607,893 from CY 2021). While this rule includes proposals that would influence programmatic policies in CY 2023 and CY 2024, we do not believe they would attribute to a rise in burden hours, meaning that both prospective years would maintain the same estimated total burden cost of $879,450. We refer readers to section XXII.B. of the preamble of this proposed rule (information collecting burden) for a detailed discussion of the calculations estimating the changes to the information collection burden for submitting data to the Medicare Promoting Interoperability Program.

O. Alternatives Considered

This proposed rule contains a range of policies. It also provides descriptions of the statutory provisions that are addressed, identifies the proposed policies, and presents rationales for the changes where relevant, alternatives that were considered.

1. Use of FY 2020 or FY 2019 Data in the FY 2022 IPPS and LTCH PPS Ratesetting

As discussed in section I.A. of the preamble of this proposed rule, we are proposing to use the FY 2019 data for the FY 2022 IPPS and LTCH PPS ratesetting for circumstances where the FY 2020 data is significantly impacted by the COVID-19 PHE. For example, we are proposing to use the FY 2019 MedPAR claims data for purposes where we ordinarily would have used the FY 2020 MedPAR claims data, such as in our analysis of changes to MS–DRG classifications (as discussed in greater detail section I.I.I. of the preamble of this proposed rule). Similarly, we are proposing to use cost report data from the FY 2018 HCRIS file for purposes where we ordinarily would have used the FY 2019 HCRIS file, such as in determining the proposed FY 2022 IPPS MS–DRG (as discussed in detail section I.I.2. of the preamble of this proposed rule) and proposed FY 2022 MS–LTC–DRG relative weights (as discussed in greater detail section VI.B. of the preamble of this proposed rule). (As noted in section I.A. of the preamble of this proposed rule, the FY 2019 HCRIS data would contain many cost reports ending in FY 2020 based on each hospital’s cost reporting period.) We have clearly identified throughout the preamble of this proposed rule, and as shown, we are proposing to modify the IPPS and LTCH PPS ratesetting consistent with our proposed use of the FY 2019 data instead of the FY 2020 data we would ordinarily use if that FY 2020 data is significantly impacted by the COVID-19 PHE.

As an alternative to our proposed approach, we considered using the FY 2020 data we would ordinarily use in the FY 2022 IPPS and LTCH PPS ratesetting. For example, we considered proposing to use the FY 2020 MedPAR claims data and cost report data from the FY 2019 HCRIS file for purposes of determining the proposed FY 2022 IPPS MS–DRG relative weights and the LTCH PPS MS–LTC–DRG relative weights, as well as in determining the proposed FY 2022 budget neutrality factors and other proposed FY 2022 ratesetting.

In order to facilitate comments on this alternative approach, which we may consider finalizing for FY 2022 based on consideration of comments received, we are making available the FY 2020 MedPAR file and the FY 2019 HCRIS file that we would ordinarily have provided in conjunction with this proposed rule. We are also making available the MS–DRG and MS–LTC–DRG relative weighting factors and length of stay information calculated using the FY 2020 data we would have ordinarily used. We are also making available the facility’s PPS case mix index, neutrality and other ratesetting adjustments calculated under this alternative approach. Finally, we are making available other proposed rule supporting data files based on the use of the FY 2020 data that we ordinarily would have provided, including: the IPPS and LTCH PPS Impact Files; the AOR/BOR File; the Case Mix Index File; and, the Standardizing File.

With the exception of the FY 2020 MedPAR file, and the proposed allocation to the PSF file and the HCRIS file, these IPPS specific files can be found on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AbbreviatedInpatientPPS/index. In order to facilitate comments on this alternative approach, we are making available other proposed rule supporting data files based on the use of the FY 2020 data that we ordinarily would have provided, including: the IPPS and LTCH PPS Impact Files; the AOR/BOR File; the Case Mix Index File; and, the Standardizing File.

With the exception of the FY 2020 MedPAR file, and the proposed allocation to the PSF file and the HCRIS file, these IPPS specific files can be found on the CMS website at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AbbreviatedInpatientPPS/index. In order to facilitate comments on this alternative approach, we are making available other proposed rule supporting data files based on the use of the FY 2020 data that we ordinarily would have provided, including: the IPPS and LTCH PPS Impact Files; the AOR/BOR File; the Case Mix Index File; and, the Standardizing File.
as finalized in the FY 2021 IPPS/LTCH PPS final rule. We also note that we are soliciting comment on alternative approaches or data sources that could be used in Medicare fee-for-service (FFS) ratasetting. We are also considering an alternative to our proposal, to instead maintain the requirement that hospitals report the median payer-specific negotiated charge for MA organizations on the Medicare cost report, but delay the implementation of the market-based MS–DRG relative weight methodology from FY 2024 to a later date. Under this alternative to delay the implementation of the market-based MS–DRG relative weight methodology, we would maintain the market-based MS–DRG relative weight data collection policy, as finalized in the FY 2021 IPPS/LTCH PPS final rule, and would require that hospitals follow the steps outlined in the frequently asked questions document published on January 15, 2021 that provides examples for how hospitals would calculate the median payer-specific negotiated charge so that the market-based data is comparable and consistent across different negotiation tactics used by hospitals and MA organizations. We refer readers to the frequently asked questions for more information: https://www.cms.gov/files/document/frequently-asked-questions-faqs-market-based-ms-drg-relative-weight-data-collection-and-change.pdf.

We are inviting public comments on our proposal, as explained in section V.L. of the preamble to this proposed rule, to repeal both the market-based data collection requirement and the market-based relative weight methodology, and also on the alternative to maintain the market-based data collection requirement but delay the adoption of the market-based MS–DRG relative weight methodology to a date after FY 2024.

If we were to finalize a delay in the implementation of the market-based MS–DRG relative weight methodology, we would remain open to adjusting the methodology, as finalized in the FY 2021 IPPS/LTCH PPS final rule, through future rulemaking, prior to the new effective date. Should we finalize a delay in the implementation of the market-based MS–DRG relative weight methodology, we would conduct further analysis based on the median payer-specific negotiated charge data received on the Medicare cost report, and provide an opportunity for public comment on that analysis, prior to the new effective date for the market-based MS–DRG relative weight methodology.

P. Overall Conclusion

1. Acute Care Hospitals

Acute care hospitals are estimated to experience an increase of approximately $2.507 billion in FY 2022, including operating, capital, and new technology changes, as well as increased GME payments as a result of section 131 of the Consolidated Appropriations Act of 2021 and increased payments as a result of the imputed floor provision in section 9831 of the American Rescue Plan Act of 2021, as modeled for this proposed rule. The estimated change in operating payments is approximately $2.157 billion (discussed in section I.G. and I.H. of this Appendix). The estimated change in capital payments is approximately $0.048 billion (discussed in section I.I. of this Appendix). The estimated change in new technology add-on payments is approximately $0.82 billion as discussed in section I.H. of this Appendix. The change in new technology add-on payments reflects the net impact of new and continuing new technology add-on payments. The estimated increase in payments as a result of our proposed implementation of section 9831 of the American Rescue Plan Act of 2021 (discussed in section V.K.2.a. of this proposed rule) is $0.191 billion. The estimated FY 2022 payments as a result of our proposed implementation of section 131 of the Consolidated Appropriations Act of 2021 (discussed in section V.K.2.a. of this proposed rule) is $0.030 billion. Total may differ from the sum of the components due to rounding.

Table I. of section I.G. of this Appendix also demonstrates the estimated redistributional impacts of the IPPS budget neutrality requirements for the proposed MS–DRG and wage index changes, and for the wage index reclassifications under the MGCRB. We estimate that hospitals would experience a 0.5 percent increase in capital payments per case, as shown in Table III. of section I.I. of this Appendix. We project that there would be a $48 million increase in capital payments in FY 2022 compared to FY 2021. The discussions presented in the previous pages, in combination with the remainder of this proposed rule, constitute a regulatory impact analysis.

2. LTCHs

Overall, LTCHs are projected to experience an increase in estimated payments in FY 2022. In the implementation of this proposed rule, we are using the proposed rates, factors, and policies presented in this proposed rule based on the best available claims and CCR data to estimate the change in payments under the LTCH PPS for FY 2022. Accordingly, based on the best available data for the 363 LTCHs in our database, we estimate that overall FY 2022 LTCH PPS payments will increase approximately $52 million relative to FY 2021 primarily due to the proposed annual update to the LTCH PPS standard Federal rate.

Q. Regulatory Review Costs

If regulations impose administrative costs on private entities, such as the time needed to read and interpret a rule, we should estimate the cost associated with regulatory review. Due to the uncertainty involved with accurately quantifying the number of entities that will review the proposed rule, we assumed that the total number of timely pieces of correspondence on last year’s proposed rule would be the number of reviewers of the proposed rule. We acknowledge that this assumption may understate or overstate the costs of reviewing the rule. It is possible that not all commenters reviewed last year’s rule in detail, and it is also possible that some reviewers chose not to comment on the proposed rule. For those reasons, and consistent with our approach in previous rulemakings (83 FR 41777, 84 FR 42697 and 85 FR 32460), we believe that the number of past commenters would be a fair estimate of the number of reviewers of the proposed rule. We welcome any public comments on the approach in estimating the number of entities that will review this proposed rule.

We also recognize that different types of entities are in many cases affected by mutually exclusive sections of the proposed rule. Therefore, for the purposes of our estimate, and consistent with our approach in previous rulemakings (83 FR 41777, 84 FR 42697 and 85 FR 32460), we assume that each reviewer read approximately 50 percent of the proposed rule. We welcome public comments on this assumption.

We have used the number of timely pieces of correspondence on the FY 2021 IPPS/LTCH proposed rule as our estimate for the number of reviewers of this proposed rule. We continue to acknowledge the uncertainty involved with using this number, but we believe it is a fair estimate due to the variety of entities affected and the likelihood that some of them choose to rely (in full or in part) on press releases, newsletters, fact sheets, or other sources rather than the comprehensive review of preamble and regulatory text. Using the wage information from the BLS for medical and health service managers (Code 11–9111), we estimate that the cost of reviewing the proposed rule is $110.74 per hour, including overhead and fringe benefits (https://www.bls.gov/oes/current/oes_nat.htm). Assuming an average reading speed, we estimate that it would take approximately 26.42 hours for the staff to review half of this proposed rule. For each IPPS hospital or LTCH that reviews this proposed rule, the estimated cost is $2,926 (26.42 hours x $110.74). Therefore, we estimate that the total cost of reviewing this proposed rule is $2,492,858 ($2,926 x 852 reviewers).

II. Accounting Statements and Tables

A. Acute Care Hospitals

As required by OMB Circular A–4 (available at https://obamawhitehouse.archives.gov/omb/circulars/a-004/a-4.html and https://georgewbush-whitehouse.archives.gov/omb/circulars/a004/a-4.html), in Table V. of this Appendix, we have prepared an accounting statement showing the classification of the expenditures associated with the provisions of this proposed rule as they relate to acute care hospitals. This table provides our best estimate of the change in Medicare payments to providers as a result of the proposed changes to the IPPS presented in this proposed rule. All expenditures are classified as transfers to Medicare providers.

As shown in Table V. of this Appendix, the net costs to the Federal Government associated with the policies proposed in this proposed rule are estimated at $2.507 billion.
TABLE V.—ACCOUNTING STATEMENT: CLASSIFICATION OF ESTIMATED EXPENDITURES UNDER THE IPPS FROM FY 2021 TO FY 2022

<table>
<thead>
<tr>
<th>Category</th>
<th>Transfers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annualized Monetized Transfers</td>
<td></td>
</tr>
<tr>
<td>From Whom to Whom</td>
<td>$2.507 billion</td>
</tr>
<tr>
<td>Federal Government to IPPS Medicare Providers</td>
<td>Federal Government to IPPS Medicare Providers</td>
</tr>
</tbody>
</table>

Therefore, as required by OMB Circular A–4 (available at: https://obamawhitehouse.archives.gov/omb/circulars/a004/a-4/) and https://georgewbush-whitehouse.archives.gov/omb/circulars/a004/a-4.html, in Table VI. of this Appendix, we have prepared an accounting statement showing the classification of the expenditures associated with the provisions of this proposed rule as they relate to the changes to the LTCH PPS. Table VI. of this Appendix provides our best estimate of the estimated change in Medicare payments under the LTCH PPS as a result of the proposed payment rates and factors and other provisions presented in this proposed rule based on the data for the 363 LTCHs in our database. All expenditures are classified as transfers to Medicare providers (that is, LTCHs).

As shown in Table VI. of this Appendix, the net cost to the Federal Government associated with the policies for LTCHs in this proposed rule are estimated at $52 million.

TABLE VI.—ACCOUNTING STATEMENT: CLASSIFICATION OF ESTIMATED EXPENDITURES FROM THE FY 2021 LTCH PPS TO THE FY 2022 LTCH PPS

<table>
<thead>
<tr>
<th>Category</th>
<th>Transfers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annualized Monetized Transfers</td>
<td></td>
</tr>
<tr>
<td>From Whom to Whom</td>
<td>$52 million</td>
</tr>
<tr>
<td>Federal Government to LTCH Medicare Providers</td>
<td>Federal Government to LTCH Medicare Providers</td>
</tr>
</tbody>
</table>

III. Regulatory Flexibility Act (RFA) Analysis

The RFA requires agencies to analyze options for regulatory relief of small entities. For purposes of the RFA, small entities include small businesses, nonprofit organizations, and small government jurisdictions. We estimate that most hospitals and most other providers and suppliers are small entities as that term is used in the RFA. The great majority of hospitals and most other health care providers and suppliers are small entities, either by being nonprofit organizations or by meeting the SBA definition of a small business (having revenues of less than $8.0 million to $41.5 million in any 1 year). For details on the latest standards for health care providers, we refer readers to page 38 of the Table of Small Business Size Standards for NAIC 622 found on the SBA website at: https://www.sba.gov/sites/default/files/files/Size_Standards_Table.pdf.

For purposes of the RFA, all hospitals and other providers and suppliers are considered to be small entities. Because all hospitals are considered to be small entities for purposes of the RFA, the hospital impacts described in this proposed rule are impacts on small entities. Individuals and States are not included in the definition of a small entity. MACs are not considered to be small entities because they do not meet the SBA definition of a small business.

HHS’s practice in interpreting the RFA is to consider effects economically “significant” if greater than 5 percent of providers reach a threshold of 3 to 5 percent or more of total revenue or total costs. We believe that the provisions of this proposed rule relating to IPPS hospitals will have an economically significant impact on small entities as explained in this Appendix. For example, the majority of the 3,198 IPPS hospitals included in the impact analysis shown in “Table I.—Impact Analysis of Proposed Changes to the IPPS for Operating Costs for FY 2022,” on average are expected to see increases in the range of 3 percent, primarily due to the proposed hospital rate update, as discussed in section I.G. of this Appendix. On average, the proposed rate update for these hospitals is estimated to be 2.8 percent.

The majority of the 360 LTCH PPS hospitals included in the impact analysis shown in “Table IV.—Impact of Proposed Payment Rate and Policy Changes to LTCH PPS Payments and Policy Changes to LTCH PPS Payments for LTCH PPS Standard Payment Rate Cases for FY 2022 (Estimated FY 2022 Payments Compared to Estimated FY 2021 Payments)” on average are expected to see increases in the range of 1 percent, primarily due to the proposed 2.2 percent annual update to the LTCH PPS standard Federal payment rate for FY 2022 and the projected 0.8 percent decrease in high cost outlier payments, as discussed in section I.J. of this Appendix.

This proposed rule contains a range of proposed policies. It provides descriptions of the statutory provisions that are addressed, identifies the proposed policies, and presents rationales for our decisions and, where relevant, alternatives that were considered. The analyses discussed in this Appendix and throughout the preamble of this proposed rule constitutes our regulatory flexibility analysis. We are soliciting public comments on our estimates and analysis of the impact of our proposals on small entities. Public comments that we receive and our responses will be presented in the final rule.

IV. Impact on Small Rural Hospitals

Section 1102(b) of the Act requires us to prepare a regulatory impact analysis for any proposed or final rule that may have a significant impact on the operations of a substantial number of small rural hospitals. This analysis must conform to the provisions of section 604 of the RFA. With the exception of hospitals located in certain New England counties, for purposes of section 1102(b) of the Act, we define a small rural hospital as a hospital that is located outside of an urban area and has fewer than 100 beds. Section 601(g) of the Social Security Amendments of 1983 (Pub. L. 98–21) designated hospitals in certain New England counties as belonging to the adjacent urban area. Thus, for purposes of the IPPS and the LTCH PPS, we continue to classify these hospitals as urban hospitals.

As shown in Table I. in section I.G. of this Appendix, rural IPPS hospitals with 0–49 beds (313 hospitals) and 50–99 beds (254 hospitals) are expected to experience an increase in payments from FY 2021 to FY 2022 of 4.0 percent and 2.6 percent, respectively, primarily driven by the proposed hospital rate update, as discussed in section I.G. of this Appendix. We refer readers to Table I. in section I.G. of this Appendix for additional information on the quantitative effects of the proposed policy changes under the IPPS for operating costs.

All rural LTCHs (19 hospitals) shown in Table IV. in section I.J. of this Appendix have less than 100 beds. These hospitals are expected to experience an increase in
payments from FY 2021 to FY 2022 of 1.5 percent, primarily due to the proposed 2.2 percent annual update to the LTCH PPS standard Federal payment rate for FY 2022 and the projected 0.8 percent decrease in high cost outlier payments, as discussed in section I.J. of this Appendix.

V. Unfunded Mandates Reform Act Analysis

Section 202 of the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4) also requires that agencies assess anticipated costs and benefits before issuing any rule whose mandates require spending in any 1 year of $100 million in 1995 dollars, updated annually for inflation. In 2021, that threshold level is approximately $158 million. This proposed rule would not mandate any requirements that meet the threshold for State, local, or tribal governments, nor would it affect private sector costs.

VI. Executive Order 13175

Executive Order 13175 directs agencies to consult with Tribal officials prior to the formal promulgation of regulations having tribal implications. Section 1880(a) of the Act states that a hospital of the Indian Health Service, whether operated by such Service or by an Indian tribe or tribal organization, is eligible for Medicare payments so long as it meets all of the conditions and requirements for such payments which are applicable generally to hospitals. Consistent with section 1880(a) of the Act, this proposed rule contains general provisions also applicable to hospitals and facilities operated by the Indian Health Service or Tribes or Tribal organizations under the Indian Self-Determination and Education Assistance Act.

As discussed in section V.E.4. of the preamble of this proposed rule, we continue to seek comment on the methodology for determining uncompensated care payments to IHS and Tribal hospitals. Consistent with Executive Order 13175, we also continue to engage in consultation with Tribal officials on this issue. We intend to use input received from these consultations with Tribal officials, as well as the comments on this proposed rule, to inform future rulemaking.

VII. Executive Order 12866

In accordance with the provisions of Executive Order 12866, the Office of Management and Budget reviewed this proposed rule.

Appendix B: Recommendation of Update Factors for Operating Cost Rates of Payment for Inpatient Hospital Services

I. Background

Section 1886(e)(4)(A) of the Act requires that the Secretary, taking into consideration the recommendations of MedPAC, recommend update factors for inpatient hospital services for each fiscal year that take into account the amounts necessary for the efficient and effective delivery of medically appropriate and necessary care of high quality. Under section 1886(e)(5) of the Act, we are required to publish update factors recommended by the Secretary in the proposed and final IPPS rules. Accordingly, this Appendix provides the recommendations for the update factors for the IPPS national standardized amount, the hospital-specific rate for SCHs and MDHs, and the rate-of-increase limits for certain hospitals excluded from the IPPS, as well as LTCHs. In prior years, we made a recommendation in the IPPS proposed rule and final rule for the update factors for the payment rates for IRFs and IPFs. However, for FY 2022, consistent with our approach for FY 2021, we are including the Secretary’s recommendation for the update factors for IRFs and IPFs in separate Federal Register documents at the time that we announce the annual updates for IRFs and IPFs. We also discuss our response to MedPAC’s recommended update factors for inpatient hospital services.

II. Inpatient Hospital Update for FY 2022

A. Proposed FY 2022 Inpatient Hospital Update

As discussed in section IV.A. of the preamble to this proposed rule, for FY 2022, consistent with section 1886(b)(3)(B) of the Act, as amended by sections 4301(a) and 10319(a) of the Affordable Care Act, we are setting the applicable percentage increase by applying the following adjustments in the following sequence. Specifically, the applicable percentage increase under the IPPS is equal to the rate-of-increase in the hospital market basket for IPPS hospitals in all areas, subject to a reduction of one-quarter of the applicable percentage increase (prior to the application of other statutory adjustments; also referred to as the market basket update or rate-of-increase (with no adjustments)) for hospitals that fail to submit quality information under rules established by the Secretary in accordance with section 1886(b)(3)(B)(viii) of the Act and a reduction of three-quarters of the applicable percentage increase (prior to the application of other statutory adjustments; also referred to as the market basket update or rate-of-increase (with no adjustments)) for hospitals not considered to be meaningful electronic health record (EHR) users in accordance with section 1886(b)(3)(B)(ix) of the Act, and then subject to an adjustment based on changes in economy-wide productivity (the multifactor productivity (MFP) adjustment). Section 1886(b)(3)(B)(xi) of the Act, as added by section 3401(a) of the Affordable Care Act, states that application of the MFP adjustment may result in the applicable percentage increase being less than zero. (We note that section 1886(b)(3)(B)(xii) of the Act required an additional reduction each year only for FYs 2010 through 2019.)

We note that, in compliance with section 404 of the MMA, in the FY 2018 IPPS/LTCH PPS final rule (82 FR 38158 through 38175), we replaced the FY 2010-based IPPS operating and capital market baskets with the rebased and revised 2014-based IPPS operating and capital market baskets effective beginning in FY 2018. In this proposed rule, we are proposing to replace the 2014-based IPPS operating and capital market baskets with the rebased and revised proposed 2018-based IPPS operating and capital market baskets beginning in FY 2022.

In this FY 2022 IPPS/LTCH PPS proposed rule, in accordance with section 1886(b)(3)(B) of the Act, we are proposing to base the proposed FY 2022 market basket update used to determine the applicable percentage increase for the IPPS on IGI’s fourth quarter 2020 forecast of the proposed 2018-based IPPS market basket rate-of-increase with historical data through third quarter 2020, which is estimated to be 2.5 percent. In accordance with section 1886(b)(3)(B) of the Act, as amended by section 3401(a) of the Affordable Care Act, in section IV.B. of the preamble of this FY 2022 IPPS/LTCH PPS proposed rule, based on IGI’s fourth quarter 2020 forecast, we are proposing a MFP adjustment of 0.2 percentage point for FY 2022. We are also proposing that if more recent data subsequently become available, we would use such data, if appropriate, to determine the FY 2022 market basket update and MFP adjustment for the FY 2022 IPPS/LTCH PPS final rule.

Therefore, based on IGI’s fourth quarter 2020 forecast of the proposed 2018-based IPPS market basket and the MFP adjustment, depending on whether a hospital submits quality data under the rules established in accordance with section 1886(b)(3)(B)(viii) of the Act (hereafter referred to as a hospital that submits quality data) and is a meaningful EHR user under section 1886(b)(3)(B)(ix) of the Act (hereafter referred to as a hospital that is a meaningful EHR user), we are proposing four possible applicable percentage increases that could be applied to the standardized amount, as shown in the following table.
B. Proposed Update for SCHs and MDHs for FY 2022

Section 1886(b)(3)(B)(iv) of the Act provides that the FY 2022 applicable percentage increase in the hospital-specific rate for SCHs and MDHs equals the applicable percentage increase set forth in section 1886(b)(3)(B)(i) of the Act (that is, the same update factor as for all other hospitals subject to the IPPS). Under current law, the MDH program is effective for discharges through September 30, 2022, as discussed in the FY 2019 IPPS/LTCH PPS final rule (83 FR 41429 through 41430).

As previously stated, the update to the hospital specific rate for SCHs and MDHs is subject to section 1886(b)(3)(B)(i) of the Act, as amended by sections 3401(a) and 10319(a) of the Affordable Care Act. Accordingly, depending on whether a hospital submits quality data and is a meaningful EHR user, we are proposing the same four possible applicable percentage increases in the previous table for the hospital-specific rate applicable to SCHs and MDHs.

C. Proposed FY 2022 Puerto Rico Hospital Update

Because Puerto Rico hospitals are no longer paid with a Puerto Rico-specific standardized amount under the amendments to section 1886(d)(9)(E) of the Act, there is no longer a need for us to make an update to the Puerto Rico standardized amount. Hospitals in Puerto Rico are now paid 100 percent of the national standardized amount and, therefore, are subject to the same update to the national standardized amount discussed under section IV.A.1. of the preamble of this proposed rule.

In addition, as discussed in section IV.A.2. of the preamble of this proposed rule, section 602 of Public Law 114–113 amended section 1886(b)(6)(B) of the Act to specify that subsection (d) Puerto Rico hospitals are eligible for incentive payments for the meaningful use of certified EHR technology, effective beginning FY 2016. In addition, section 1886(n)(6)(B) of the Act was amended to specify that the adjustments to the applicable percentage increase under section 1886(b)(3)(B)(ix) of the Act apply to subsection (d) Puerto Rico hospitals that are not meaningful EHR users, effective beginning FY 2022.

Accordingly, for FY 2022, section 1886(b)(3)(B)(ix) of the Act in conjunction with section 602(d) of Public Law 114–113 requires that any subsection (d) Puerto Rico hospital that is not a meaningful EHR user as defined in section 1886(n)(3) of the Act and not subject to an exception under section 1886(b)(3)(B)(ix) of the Act will have “three-quarters” of the applicable percentage increase (prior to the application of other statutory adjustments), or three-quarters of the applicable market basket rate-of-increase, reduced by 33 1/3 percent. The reduction to three-quarters of the applicable percentage increase for subsection (d) Puerto Rico hospitals that are not meaningful EHR users increases to 66 2/3 percent for FY 2023, and, for FY 2024 and subsequent fiscal years, to 100 percent. In the FY 2019 IPPS/LTCH PPS final rule, we finalized the payment reductions (83 FR 41674).

Based on IGI’s fourth quarter 2020 forecast of the proposed 2018 based IPPS market basket update with historical data through third quarter 2020, for this FY 2022 proposed rule, in accordance with section 1886(b)(3)(B) of the Act, as previously discussed, for Puerto Rico hospitals, we are proposing a market basket update of 2.5 percent and an MFP adjustment of 0.2 percent. Therefore, for FY 2022, depending on whether a Puerto Rico hospital is a meaningful EHR user, there are two possible applicable percentage increases that can be applied to the standardized amount. Based on these data, we are proposing the following applicable percentage increases to the standardized amount for FY 2022 for Puerto Rico hospitals:

- For a Puerto Rico hospital that is a meaningful EHR user, we are proposing an applicable percentage increase to the operating standardized amount of 1.675 percent (that is, the FY 2022 estimate of the proposed market basket rate-of-increase of 2.5 percent less an adjustment of 0.625 percentage point for the proposed MFP adjustment).
- For a Puerto Rico hospital that is not a meaningful EHR user, we are proposing an applicable percentage increase to the operating standardized amount of 0.425 percent (that is, the FY 2022 estimate of the proposed market basket rate-of-increase of 2.5 percent less an adjustment of 0.2 percentage point for the proposed MFP adjustment).

As noted previously, we are proposing that if more recent data subsequently become available, we would use such data, if appropriate, to determine the FY 2022 market basket update and the MFP adjustment for the FY 2022 IPPS/LTCH PPS final rule.

D. Proposed Update for Hospitals Excluded From the IPPS for FY 2022

Section 1886(b)(3)(B)(ii) of the Act is used for purposes of determining the percentage increase in the rate-of-increase limits for children’s hospitals, cancer hospitals, and hospitals located outside the 50 States, the District of Columbia, and Puerto Rico (that is, short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa). Section 1886(b)(3)(B)(ii) of the Act sets the percentage increase in the rate-of-increase limits equal to the market basket percentage increase. In accordance with § 413.752(a) of the regulations, RNHCIs are paid under the provisions of § 413.40, which also use

<table>
<thead>
<tr>
<th>FY 2022</th>
<th>Hospital Submitted Quality Data and is a Meaningful EHR User</th>
<th>Hospital Submitted Quality Data and is NOT a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is a Meaningful EHR User</th>
<th>Hospital Did NOT Submit Quality Data and is NOT a Meaningful EHR User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Market Basket Rate-of-Increase</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Proposed Adjustment for Failure to Submit Quality Data under Section 1886(b)(3)(B)(viii) of the Act</td>
<td>0</td>
<td>0</td>
<td>-0.625</td>
<td>-0.625</td>
</tr>
<tr>
<td>Proposed Adjustment for Failure to be a Meaningful EHR User under Section 1886(b)(3)(B)(ix) of the Act</td>
<td>0</td>
<td>-1.875</td>
<td>0</td>
<td>-1.875</td>
</tr>
<tr>
<td>Proposed MFP Adjustment under Section 1886(b)(3)(B)(ix) of the Act</td>
<td>-0.2</td>
<td>-0.2</td>
<td>-0.2</td>
<td>-0.2</td>
</tr>
<tr>
<td>Proposed Applicable Percentage Increase Applied to Standardized Amount</td>
<td>2.3</td>
<td>0.425</td>
<td>1.675</td>
<td>-0.2</td>
</tr>
</tbody>
</table>
section 1886(b)(3)(B)(i) of the Act to update the percentage increase in the rate-of-increase limits.

Currently, children’s hospitals, PPS-excluded cancer hospitals, RNHCIs, and short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa are among the remaining types of hospitals still paid under the reasonable cost methodology, subject to the rate-of-increase limits. In addition, in accordance with §412.526(c)(3) of the regulations, extended neoplastic disease care hospitals (described in §412.22(i) of the regulations) also are subject to the rate-of-increase limits. As discussed in section VI. of the preamble of this proposed rule, we are proposing to use the percentage increase in the proposed 2018-based IPPS operating market basket to update the target amounts for children’s hospitals, PPS-excluded cancer hospitals, RNHCIs, short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa, and extended neoplastic disease care hospitals for FY 2022 and subsequent fiscal years. Accordingly, for FY 2022, the rate-of-increase percentage to be applied to the target amount for these children’s hospitals, cancer hospitals, RNHCIs, extended neoplastic disease care hospitals, and short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa is the FY 2022 percentage increase in the proposed 2018-based IPPS operating market basket. For this proposed rule, the current estimate of the IPPS operating market basket percentage increase for FY 2022 is 2.5 percent. We are proposing that if more recent data subsequently become available, we would use such data, if appropriate, to determine the FY 2022 market basket update and the MFP adjustment for the FY 2022 IPPS/LTCH PPS final rule.

E. Proposed Update for LTCHs for FY 2022

Section 123 of Public Law 106–113, as amended by section 307(b) of Public Law 106–554 (and codified at section 1886(m)(1) of the Act), provides the statutory authority for updating payment rates under the LTCH PPS.

As discussed in section V.A. of the Addendum to this proposed rule, we are proposing to update the LTCH PPS standard Federal payment rate for FY 2022 by 2.2 percent, consistent with section 1886(m)(3) of the Act which provides that in any year this update be reduced by the productivity adjustment described in section 1886(b)(3)(B)(xi)(II) of the Act (that is, the MFP adjustment). Furthermore, in accordance with the LTCHQRR Program under section 1886(m)(5) of the Act, we are proposing to reduce the annual update to the LTCH PPS standard Federal rate by 2.0 percentage points for failure of a LTCH to submit the required quality data. Accordingly, we are proposing to establish an update factor of 1.022 in determining the LTCH PPS standard Federal rate for FY 2022. For LTCHs that fail to submit quality data for FY 2022, we are proposing to establish an annual update to the LTCH PPS standard Federal rate of 0.2 percent (that is, the proposed annual update for FY 2022 of 2.2 percent less 2.0 percentage points for failure to submit the required quality data in accordance with section 1886(m)(5)(C) of the Act and our rules) by applying a proposed update factor of 1.0020 to determining the LTCH PPS standard Federal rate for FY 2022. (We note that, as discussed in section VII.D. of the preamble of this proposed rule, the proposed update to the LTCH PPS standard Federal payment rate of 2.2 percent for FY 2022 does not reflect any budget neutrality factors).

III. Secretary’s Recommendations

MedPAC is recommending an inpatient hospital update of 2.0 percent. MedPAC’s rationale for this update recommendation is described in more detail in this section. As previously stated, section 1886(e)(4)(A) of the Act requires that the Secretary, taking into consideration the recommendations of MedPAC, recommend update factors for inpatient hospital services for each fiscal year that take into account the amounts necessary for the efficient and effective delivery of medically appropriate and necessary care of high quality. Consistent with current law, depending on whether a hospital submits quality data and is a meaningful EHR user, we are recommending the four applicable percentage increases to the standardized amount listed in the table under section II. of this Appendix B. We are recommending that the same applicable percentage increases apply to SCHs and MDHs.

In addition to making a recommendation for IPPS hospitals, in accordance with section 1886(e)(4)(A) of the Act, we are recommending update factors for certain other types of hospitals excluded from the IPPS. Consistent with our policies for these facilities, we are recommending an update to the target amounts for children’s hospitals, cancer hospitals, RNHCIs, short-term acute care hospitals located in the U.S. Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa and extended neoplastic disease care hospitals of 2.5 percent.

For FY 2022, consistent with policy set forth in section VII. of the preamble of this proposed rule, for LTCHs that submit quality data, we are recommending an update of 2.2 percent to the LTCH PPS standard Federal rate. For LTCHs that fail to submit quality data for FY 2022, we are recommending an annual update to the LTCH PPS standard Federal rate of 0.2 percent.

IV. MedPAC Recommendation for Assessing Payment Adequacy and Updating Payments in Traditional Medicare

In its March 2021 Report to Congress, MedPAC assessed the adequacy of current payments and costs, and the relationship between payments and an appropriate cost base. MedPAC recommended an update to the hospital inpatient rates by 2.0 percent with the difference between this and the update amount specified in current law to be used to increase payments under MedPAC’s Medicare quality program, the “Hospital Value Incentive Program (HVIP).” MedPAC initially recommended in March 2019 a redesign of the current hospital quality payment programs. MedPAC stated that together, these recommendations, paired with the recommendation to eliminate the current hospital quality program incentives, would increase hospital payments and by increasing the average rewards hospitals receive under MedPAC’s Medicare HVIP. We refer readers to the March 2021 MedPAC report, which is available for download at www.medpac.gov, for a complete discussion on these recommendations. Response: With regard to MedPAC’s recommendation of an update to the hospital inpatient rates equal to 2.0 percent, with the remainder of the applicable percentage increase specified in current law to be used to fund its recommended Medicare HVIP, section 1886(b)(3)(B) of the Act sets the requirements for the FY 2022 applicable percentage increase. Therefore, consistent with the statute, we are proposing an applicable percentage increase for FY 2022 of 2.3 percent, provided the hospital submits quality data and is a meaningful EHR user consistent with these statutory requirements. Furthermore, we continue to appreciate MedPAC’s recommendation concerning a new HVIP. We agree that continual improvement motivated by quality programs is an important incentive of the IPPS.
We note that, because the operating and capital payments in the IPPS remain separate, we are continuing to use separate updates for operating and capital payments in the IPPS. The proposed update to the capital rate is discussed in section III. of the Addendum to this proposed rule.
The President

Notice of May 6, 2021—Continuation of the National Emergency With Respect to the Actions of the Government of Syria
Notice of May 6, 2021—Continuation of the National Emergency With Respect to the Central African Republic
Notice of May 6, 2021—Continuation of the National Emergency With Respect to the Stabilization of Iraq
Continuation of the National Emergency With Respect to the Actions of the Government of Syria


The President took these actions to deal with the unusual and extraordinary threat to the national security, foreign policy, and economy of the United States constituted by the actions of the Government of Syria in supporting terrorism, maintaining its then-existing occupation of Lebanon, pursuing weapons of mass destruction and missile programs, and undermining United States and international efforts with respect to the stabilization and reconstruction of Iraq.

The regime’s brutality and repression of the Syrian people, who have called for freedom and a representative government, not only endangers the Syrian people themselves, but also generates instability throughout the region. The Syrian regime’s actions and policies, including with respect to chemical weapons and supporting terrorist organizations, pose an unusual and extraordinary threat to the national security, foreign policy, and economy of the United States. As a result, the national emergency declared on May 11, 2004, and the measures to deal with that emergency adopted on that date in Executive Order 13338; on April 25, 2006, in Executive Order 13399; on February 13, 2008, in Executive Order 13460; on April 29, 2011, in Executive Order 13572; on May 18, 2011, in Executive Order 13573; on August 17, 2011, in Executive Order 13582; on April 22, 2012, in Executive Order 13606; and on May 1, 2012, in Executive Order 13608, must continue in effect beyond May 11, 2021. Therefore, in accordance with section 202(d) of the National Emergencies Act (50 U.S.C. 1622(d)), I am continuing for 1 year the national emergency declared with respect to the actions of the Government of Syria.

In addition, the United States condemns the Assad regime’s, and its Russian and Iranian enablers’, brutal violence and human rights violations and abuses. The United States calls on the Assad regime and its backers to stop its violent war against its own people, enact a nationwide ceasefire, enable the unobstructed delivery of humanitarian assistance to all Syrians in need, and negotiate a political settlement in Syria in line with United Nations Security Council Resolution 2254. The United States will consider changes in policies and actions of the Government of Syria in determining whether to continue or terminate this national emergency in the future.
This notice shall be published in the Federal Register and transmitted to the Congress.

THE WHITE HOUSE,

May 6, 2021.
Notice of May 6, 2021

Continuation of the National Emergency With Respect to the Central African Republic

On May 12, 2014, by Executive Order 13667, the President declared a national emergency pursuant to the International Emergency Economic Powers Act (50 U.S.C. 1701–1706) to deal with the unusual and extraordinary threat to the national security and foreign policy of the United States constituted by the situation in and in relation to the Central African Republic, which has been marked by a breakdown of law and order, intersectarian tension, widespread violence and atrocities, and the pervasive, often forced recruitment and use of child soldiers, which threatens the peace, security, or stability of the Central African Republic and neighboring states.

The situation in and in relation to the Central African Republic continues to pose an unusual and extraordinary threat to the national security and foreign policy of the United States. For this reason, the national emergency declared in Executive Order 13667 on May 12, 2014, to deal with that threat must continue in effect beyond May 12, 2021. Therefore, in accordance with section 202(d) of the National Emergencies Act (50 U.S.C. 1662(d)), I am continuing for 1 year the national emergency declared with respect to the Central African Republic.

This notice shall be published in the Federal Register and transmitted to the Congress.

THE WHITE HOUSE,
May 6, 2021.
Notice of May 6, 2021

Continuation of the National Emergency With Respect to the Stabilization of Iraq

On May 22, 2003, by Executive Order 13303, the President declared a national emergency pursuant to the International Emergency Economic Powers Act (50 U.S.C. 1701 et seq.), to deal with the unusual and extraordinary threat to the national security and foreign policy of the United States posed by obstacles to the orderly reconstruction of Iraq, the restoration and maintenance of peace and security in the country, and the development of political, administrative, and economic institutions in Iraq.

The obstacles to the orderly reconstruction of Iraq, the restoration and maintenance of peace and security in the country, and the development of political, administrative, and economic institutions in Iraq continue to pose an unusual and extraordinary threat to the national security and foreign policy of the United States. For this reason, the national emergency declared in Executive Order 13303, as modified in scope and relied upon for additional steps taken in Executive Order 13290 of March 20, 2003, Executive Order 13315 of August 28, 2003, Executive Order 13350 of July 29, 2004, Executive Order 13364 of November 29, 2004, Executive Order 13438 of July 17, 2007, and Executive Order 13668 of May 27, 2014, must continue in effect beyond May 22, 2021. Therefore, in accordance with section 202(d) of the National Emergencies Act (50 U.S.C. 1622(d)), I am continuing for 1 year the national emergency with respect to the stabilization of Iraq declared in Executive Order 13303.

This notice shall be published in the Federal Register and transmitted to the Congress.

THE WHITE HOUSE,
May 6, 2021.
Reader Aids

Federal Register
Vol. 86, No. 88
Monday, May 10, 2021

CUSTOMER SERVICE AND INFORMATION

Federal Register/Code of Federal Regulations
General Information, indexes and other finding aids 202–741–6000
Laws 741–6000
Presidential Documents
Executive orders and proclamations 741–6000
The United States Government Manual 741–6000
Other Services
Electronic and on-line services (voice) 741–6060
Privacy Act Compilation 741–6050

ELECTRONIC RESEARCH

World Wide Web
Full text of the daily Federal Register, CFR and other publications is located at: www.govinfo.gov.
Federal Register information and research tools, including Public Inspection List and electronic text are located at: www.federalregister.gov.

E-mail
FEDREGTOC (Daily Federal Register Table of Contents Electronic Mailing List) is an open e-mail service that provides subscribers with a digital form of the Federal Register Table of Contents. The digital form of the Federal Register Table of Contents includes HTML and PDF links to the full text of each document.
To join or leave, go to https://public.govdelivery.com/accounts/USGPOOFR/subscriber/new, enter your email address, then follow the instructions to join, leave, or manage your subscription.
PENS (Public Law Electronic Notification Service) is an e-mail service that notifies subscribers of recently enacted laws.
To subscribe, go to http://listserv.gsa.gov/archives/publaws-l.html and select Join or leave the list (or change settings); then follow the instructions.
FEDREGTOC and PENS are mailing lists only. We cannot respond to specific inquiries.
Reference questions. Send questions and comments about the Federal Register system to: fedreg.info@nara.gov
The Federal Register staff cannot interpret specific documents or regulations.

FEDERAL REGISTER PAGES AND DATE, MAY

<table>
<thead>
<tr>
<th>Date</th>
<th>Page Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>23237</td>
<td>3</td>
</tr>
<tr>
<td>23577</td>
<td>4</td>
</tr>
<tr>
<td>23843</td>
<td>5</td>
</tr>
<tr>
<td>24297</td>
<td>6</td>
</tr>
<tr>
<td>24475</td>
<td>7</td>
</tr>
<tr>
<td>24697</td>
<td>10</td>
</tr>
<tr>
<td>24795</td>
<td>10</td>
</tr>
<tr>
<td>24800</td>
<td>10</td>
</tr>
<tr>
<td>24801</td>
<td>10</td>
</tr>
<tr>
<td>24803</td>
<td>10</td>
</tr>
</tbody>
</table>

CFR PARTS AFFECTED DURING MAY

At the end of each month the Office of the Federal Register publishes separately a List of CFR Sections Affected (LSA), which lists parts and sections affected by documents published since the revision date of each title.

3 CFR
Proclamations:
10189......................................23843
10190......................................23845
10191......................................23847
10192......................................23849
10193......................................23851
10194......................................23853
10195......................................23855
10196......................................23857
10197......................................23859
10198......................................23861
10199......................................23863
10200......................................23865
10201......................................23867
10202......................................23869
10203......................................23871

Administrative Orders:
Presidential
Determinations: No.
2021–06 of May 3, 2021......................................24475

Notices
Notice of May 6, 2021......................................25793
Notice of May 6, 2021......................................25795
Notice of May 6, 2021......................................25797

6 CFR
37......................................23237

7 CFR
3......................................24699

Proposed Rules:
1260......................................24513

8 CFR
Proposed Rules:
1......................................24750
103......................................24750
106......................................24750
204......................................24750
207......................................24750
208......................................24750
209......................................24750
210......................................24750
212......................................24750
214......................................24750
215......................................24750
216......................................24750
235......................................24750
236......................................24750
240......................................24750
241......................................24751
244......................................24750
245......................................24750
245a.................................24750
246......................................24750
247......................................24750
247a......................................24751
247b......................................24750

10 CFR
430......................................24479, 24483

Proposed Rules:
50......................................24362
51......................................24514
52......................................24362
429......................................24516
430......................................23635, 24538
431......................................23875, 24516, 24752

11 CFR
Proposed Rules:
113......................................23300

12 CFR
1242......................................23577

Proposed Rules:
30......................................24755
206......................................24755
328......................................24770
364......................................24755

13 CFR
126......................................23863

14 CFR
13......................................23241
39......................................23593, 23595, 23599, 24485
244......................................23260
259......................................23260
383......................................23241
406......................................23241

Proposed Rules:
39......................................23301, 24546, 24549, 24551, 24554, 24556, 24560, 24778, 24780, 24783, 24786, 24790, 24793, 24794, 24795, 24797, 24798, 24800, 24801, 24903, 24805
71......................................24562, 21782, 24792, 24794, 24795, 24797, 24798, 24800, 24801, 24803, 24805
Ch. I......................................23876
Ch. II.....................................23876
Ch. III.....................................23876

15 CFR
Ch. XV......................................23271

17 CFR
Proposed Rules:
240......................................24364

19 CFR
Ch. I......................................23277

20 CFR
Proposed Rules:
655......................................24368
<table>
<thead>
<tr>
<th>CFR</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>1308, 23602, 24487, 1310, 24703</td>
</tr>
<tr>
<td>22</td>
<td>Proposed Rules: 573, 24564</td>
</tr>
<tr>
<td>23</td>
<td>Proposed Rules: 228, 24708</td>
</tr>
<tr>
<td>26</td>
<td>53, 23865</td>
</tr>
<tr>
<td>29</td>
<td>780, 23003, 788, 23003, 795, 23003</td>
</tr>
<tr>
<td>30</td>
<td>250, 23606</td>
</tr>
<tr>
<td>31</td>
<td>Proposed Rules: 100, 23877</td>
</tr>
<tr>
<td>33</td>
<td>100, 23608, 23865, 2436, 24482, 117, 23278, 23609, 165, 23279, 23611, 23613, 23865, 24710, 401, 23241</td>
</tr>
<tr>
<td>34</td>
<td>Proposed Rules: 117, 23639, 23880, 165, 24807</td>
</tr>
<tr>
<td>38</td>
<td>Proposed Rules: 23304</td>
</tr>
<tr>
<td>39</td>
<td>3, 24712, 10, 24712</td>
</tr>
<tr>
<td>40</td>
<td>9, 24328, 52, 24499, 24500, 24502, 24503, 24505, 24507, 24713, 24715, 24717, 24718, 24726, 24728, 62, 24730, 82, 24444, 180, 24731, 721, 24328, 725, 24329</td>
</tr>
<tr>
<td>42</td>
<td>Proposed Rules: 52, 24564, 24569, 24899, 24859, 81, 23309</td>
</tr>
<tr>
<td>44</td>
<td>37, 24336, 412, 24735, 510, 23496</td>
</tr>
<tr>
<td>45</td>
<td>Proposed Rules: 412, 25070, 413, 25070, 425, 25070, 435, 25070, 455, 25070, 495, 25070</td>
</tr>
<tr>
<td>46</td>
<td>64, 24739</td>
</tr>
<tr>
<td>47</td>
<td>23281, 23614, 23281, 23614, 23281, 23614, 23866, 23868, 24339, 24510, 24741, 23281, 23281</td>
</tr>
<tr>
<td>48</td>
<td>Proposed Rules: 15, 23323, 73, 23323, 90, 24837, 95, 23323</td>
</tr>
<tr>
<td>49</td>
<td>Proposed Rules: Ch. 12, 23876</td>
</tr>
<tr>
<td>50</td>
<td>Proposed Rules: 1582, 23629, 1570, 23629, 1582, 23629</td>
</tr>
<tr>
<td>51</td>
<td>Proposed Rules: Ch. I, 23876, Ch. II, 23876, Ch. III, 23876, Ch. IV, 23876, Ch. V, 23876, Ch. VI, 23876, Ch. VII, 23876, Ch. VIII, 23876, Ch. IX, 23876, Ch. XI, 23876</td>
</tr>
<tr>
<td>52</td>
<td>17, 23869, 218, 24340, 622, 24742, 635, 24359, 648, 24360, 24745, 660, 23872, 665, 24511, 679, 24746</td>
</tr>
<tr>
<td>53</td>
<td>Proposed Rules: 10, 24573, 17, 23882, 20, 23641, 32, 23794, 71, 23794, 224, 23657, 660, 23659</td>
</tr>
</tbody>
</table>
Note: No public bills which have become law were received by the Office of the Federal Register for inclusion in today's List of Public Laws. Last List May 6, 2021.

---

**Public Laws Electronic Notification Service (PENS)**

PENS is a free email notification service of newly enacted public laws. To subscribe, go to [https://listserv.gsa.gov/cgi-bin/wa.exe?SUBED1=PUBLAWS-L&A=1](https://listserv.gsa.gov/cgi-bin/wa.exe?SUBED1=PUBLAWS-L&A=1)

Note: This service is strictly for email notification of new laws. The text of laws is not available through this service. PENS cannot respond to specific inquiries sent to this address.